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# CATALOG OF MUHLENBERG COLLEGE

ALLENTOWN, PA.

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1920

# CATALOG

OF

# MUHLENBERG COLLEGE

## ALLENTOWN, PA.

FOR THE

## FIFTY-THIRD COLLEGIATE YEAR

1920

ALLENTOWN, PA.
PRINTED AT MUHLENBERG COLLEGE
BY THE STUDENTS
1920

# COLLEGE CALENDAR.

## 1920

Jan. 4 .....Christmas Vacation ends.
Jan. 13 .....Semi-annual Board Meeting.
Jan. 25-31 .....First Term ends; Mid-year Examinations.
Feb. 22 .....Washington's Birthday.
Apr. 2-5 .....Easter Recess.
May 17-21 .....Final Examination of Senior Class.
June 7-11 .....Examination of lower classes for promotion.
June 13 .....Baccalaureate Sermon.
June 14 .....President's Reception to the Seniors.
June 15 .....Junior Oratorical Prize Contest, 10 a. m.
June 15 .....Senior Class Day Exercises, 2 p. m.
June 16 .....Alumni Re-union.
June 16 .....Annual Board Meeting, at 10.00 a. m.
June 17 .....Commencement and Conferring of Degrees.
June 27-Aug. 6 ...Summer School.

## SUMMER VACATION

## 1920--1921

Sept. 16 .....First Term begins.
Oct. 2 .....Extension courses begin.
Nov. 25-28 .....Thanksgiving Recess.
Dec. 23 .....Christmas Vacation begins.

## 1921

Jan. 3 .....Christmas Vacation ends.
Jan. 24-30 .....First Term ends; Mid-year Examinations.
Mar. 25-28 .....Easter Recess.
June 12-16 .....Commencement Week.

# BOARD OF TRUSTEES.

| Term Expires. | | |
|---|---|---|
| 1921 | Rev. J. L. Becker, D. D. | Lansdale. |
| 1921 | Mr. Frank D. Bittner | Allentown. |
| 1921 | Reuben J. Butz, Esq. | Allentown. |
| 1921 | D. D. Fritch, M.D. | Macungie. |
| 1921 | Rev. George Gebert, D.D. | Tamaqua. |
| 1921 | Mr. Theodore Hetzler | New York City. |
| 1920 | Rev. I. Chantry Hoffman, D. D. | Philadelphia. |
| 1922 | Rev. C. M. Jacobs, D.D. | Philadelphia. |
| 1922 | Rev. W. D. C. Keiter, D.D. | Allentown. |
| 1920 | Rev. C. E. Kistler | Reading. |
| 1920 | Mr. Oliver M. Clauss | Allentown. |
| 1920 | R. B. Klotz, M.D. | Allentown. |
| 1922 | Hon. C. R. Lantz | Lebanon. |
| 1922 | Mr. George W. March | Norristown. |
| 1920 | Mr. E. Clarence Miller | Philadelphia. |
| 1922 | Mr. Chas F. Mosser | Allentown. |
| 1921 | Mr. George K. Mosser | Trexlertown. |
| 1920 | S. N. Potteiger, Esq. | Reading. |
| 1920 | Rev. J. H. Sandt | Catawissa. |
| 1920 | Rev. Prof. T. E. Schmauk, D.D.,LL.D. | Lebanon. |
| 1922 | Howard S. Seip, D.D.S. | Allentown. |
| 1921 | Hon. H. J. Steele, LL. D. | Easton. |
| 1922 | Rev. A. T. W. Steinhaeuser, D. D. | Allentown. |
| 1922 | Gen. Harry C. Trexler | Allentown. |
| 1920 | Rev. S. G. Trexler, D. D. | Buffalo. |
| 1920 | Rev. J. H. Waidelich, D. D. | Sellersville. |
| 1920 | R. D. Wenrich, M. D. | Wernersville. |
| 1921 | Rev. J. E. Whitteker, D.D. | Lancaster. |
| 1921 | Rev. J. D. C. Witke | Scranton. |
| 1922 | Col. E. M. Young | Allentown. |

# OFFICERS AND COMMITTEES OF THE BOARD.

REUBEN J. BUTZ, ESQ., *President of the Board.*
OSCAR F. BERNHEIM, *Secretary and Treasurer, Allentown, Pa.*

# CENTRAL EXECUTIVE COMMITEE.

REUBEN J. BUTZ, ESQ., *Chairman.*
COL. E. M. YOUNG
D. D. FRITCH, M.D.
REV. J. A. W. HAAS, D.D., LL.D., *Ex-Officio.*
REV. J. H. WAIDELICH, D.D.
CHAS. F. MOSSER
ROBERT J. KLOTZ, M.D.
HOWARD S. SEIP, D.D.S.
A. T. W. STEINHAEUSER, D.D.
FRANK D. BITTNER
OLIVER M. CLAUSS

# FACULTY AND INSTRUCTORS.

REV. JOHN A. W. HAAS, D.D., LL.D.

President's Residence, Campus.

*President; Professor of Religion and Philosophy.*

A.B., University of Pennsylvania, 1884; A.M., and B.D., University of Pennsylvania, 1887; Graduate Work, University of Leipsic, 1887-88; D.D., Thiel College, 1902; LL.D., University of Pennsylvania, 1914.

GEORGE T. ETTINGER, PH.D.

1114 Hamilton Street.

*Dean; Professor of the Latin Language and Literature.*

A.B., Muhlenberg College, 1880; A.M., Muhlenberg College, 1883; Ph.D., New York University, 1891.

REV. WILLIAM WACKERNAGEL, D.D., LL.D.

626 Chew Street.

*Chaplain; Professor of Modern Languages and Literature.*

A.M., Muhlenberg College, 1882; D.D., University of Pennsylvania, 1883; LL.D., Muhlenberg College, 1918.

REV. JOHN A. BAUMAN, PH.D.

399 Turner Street.

*Professor of Mathematics and Astronomy.*

A.B., Muhlenberg College, 1873; A.M., Muhlenberg College, 1876; Ph.D., Muhlenberg College, 1894.

ROBERT C. HORN, A.M.

132 North Fourth Street.

*Mosser-Keck Professor of the Greek Language and Literature.*

A.B., Muhlenberg College, 1900; A.M., Muhlenberg College, 1903; A.M., Harvard University, 1904; Graduate Work, John Hopkins University, 1900-1901; Harvard University, 1903-1904; 1907-1908; 1919.

REV. ROBERT R. FRITSCH, A.M.

2220 Chew Street.

*Assistant Prof. of German and Religion.*

A.B., Muhlenberg College, 1900; A.M., Muhlenberg College, 1903; A.M., Illinois Wesleyan University, 1907; Graduate Work, University of Penna., 1910-1913.

HARRY D. BAILEY, A.M.

1738 Linden Street.

*Professor of Biology.*

A.B., Lafayette College, 1904; A.M., Lafayette College, 1911.

STEPHEN G. SIMPSON, A.M.

28 N. Franklin Street.

*Librarian; Professor of English.*

A.B., Lafayette College, 1896; A.M., Lafayette College, 1899.

REV. JOHN D. M. BROWN, A.M.

117 North West Street.

*Professor of English.*

A.B., Muhlenberg College, 1906. A.M., Columbia University, 1907; Mount Airy Theol. Seminary, 1910; University of Grenoble, Summer 1914.

ALBERT C. H. FASIG, M.S.

131 N. Franklin Street.

*Assistant Professor of Chemistry and Physics.*

A.B., Muhlenberg College, 1909; M.S., Muhlenberg College, 1910.

ISAAC MILES WRIGHT, PD.D.

240 North St. Cloud Street.

*Professor of Philosophy and Pedagogy.*

B.S., Alfred University, 1904; Pd.M., New York University, 1914; Pd.D., New York University, 1916.

GUERNEY F. AFFLERBACH, PH.B., M.S.

1605½ Turner Street.

*Instructor in Chemistry.*

Ph.B., Muhlenberg College, 1916; M.S., Muhlenberg College, 1919.

REV. HARRY C. CRESSMAN, A.B.

435 North Fourth Street.

*Acting Instructor in History and Sociology.*

A.B., Muhlenberg College, 1913; Mount Airy Theol. Seminary, 1916.

HAROLD K. MARKS, A.B.

314 North Franklin Street.

*Instructor in Music.*

A.B., Muhlenberg College, 1907.

FREDERICK H. WORSINGER, JR. A.B.
133 South Eighth Street.
*Instructor in Biology.*
A.B., Muhlenberg College, 1919.

CAPTAIN L. B. CLAPHAM, U. S. A.
*Instructor in Military Science and Tactics.*

WILLARD D. KLINE, M.D.
24 North Eighth Street.
*Examining Physician.*
A.B., Muhlenberg College, 1897; A.M., Muhlenberg, 1909; M.D., Jefferson Medical College, 1901.

WILLIAM S. RITTER, B.S.
*Physical Director.*
B.S., Muhlenberg College, 1916.

## MUHLENBERG COLLEGE

This institution was originally called the *Allentown Seminary,* which name it retained until 1864, when, by an Act of the Legislature of Pennsylvania, it was incorporated with full collegiate powers under the title of the "Allentown Collegiate Institute and Military Academy." In the year 1867 its control passed into the hands of a board of trustees, chiefly members of the Evangelical Lutheran Church, who had the charter amended by the Court of Lehigh County, formed themselves into a joint stock company, named the institution MUHLENBERG COLLEGE, after the honored patriarch of the Lutheran Faith in this country, and established a full collegiate course of studies.

Subsequently the institution, by surrender of the stock, and with a charter amended by the proper Court, was put under the direct control of the "Evangelical Lutheran Ministerium of Pennsylvania and Adjacent States." Its trustees are now elected by that body.

## LOCATION

Allentown is located fifty-nine miles north of Philadelphia, and ninety miles from New York City. The city has frequent and direct communications with New York, Philadelphia and other important points by L. V. R. R., C. R. R. of N. J. and P. & R. R. R.; and with Philadelphia by means of the express service of the L. V. Traction Co.

# THE COLLEGE

## ADMISSION TO FRESHMAN CLASS.

Graduates of reputable high schools which have a four years course will be admitted on certificate to the courses for which their previous work has fitted them.

Candidates for admission to the Freshman Class, except such as are admitted on certificate from reputable and properly accredited fitting schools, must sustain an examination. The subjects presented for admission must amount in all to 15 units. A unit consists of a year's work in a subject of four one-hour periods or five three-quarter hour periods per week; or "of a year's study in a subject representing approximately a quarter of a full year's work." The subjects which must be presented for admission to the Freshman Class, together with the number of units at which each is valued, are as follows:

FOR COURSE IN ARTS (A.B.)

| | | |
|---|---|---|
| Latin | 4 | Units |
| German or French | 2 | " |
| Greek | 2 | " |
| English | 3 | " |
| Mathematics | 2½ | " |
| | 13½ | Units |

And at least one and one-half units from the list given below. Or, if Greek is not offered, at least three and one-half units from the list below.

FOR COURSE IN SCIENCE (B.S.)

| | | |
|---|---|---|
| German, French, Spanish, Latin | 3 | Units |
| English | 3 | " |
| Mathematics | 2½ | " |

| | | |
|---|---|---|
| Chemistry or Physics | 1 | " |
| | 9½ | Units |

And at least five and one-half units from the list given below.

FOR COURSE IN PHILOSOPHY (Ph.B.)

| | | |
|---|---|---|
| English | 3 | Units |
| German, French, Spanish or Latin | 2 | " |
| Mathematics | 2½ | " |
| History | 1 | " |
| | 8½ | Units |

And at least six and one-half units from the list given below.

SUMMARY OF SUBJECTS AND POINTS

| | Units |
|---|---|
| Latin | 3 |
| Advanced Latin | 1 |
| Greek | 2 |
| Advanced Greek | 1 |
| English | 3 |
| German | 2 |
| Advanced German | 1 |
| French | 2 |
| Advanced French | 1 |
| Mathematics | 2½ |
| Advanced Mathematics | ½ |
| History, a, b, c, d, each | 1 |
| Physics | 1 |
| Chemistry | 1 |
| Physical Georgraphy | ½ |
| Physiology | ½ |
| Zoology | ½ |
| Botany | ½ |
| Astronomy | ½ |

Credit will be given for systematic Bible Study, and vocational and commercial subjects.

## ADVANCED STANDING.

*Sophomore Class.* Candidates for admission shall be required to satisfy as many units of Freshman work

as we require of our own Freshmen. For system of units see page 18. No student, except one coming from another reputable college, shall in any case be admitted to higher standing than the Sophomore Class.

*Junior Class.* Candidates for admission shall be required to satisfy as many units of Sophomore work as are required of regular Sophomores. For system of units see page 18.

*Senior Class.* Candidates for admission shall be required to satisfy as many units of Junior work as we requires of regular Juniors. For system of units see page 18.

No bachelor's degree shall be conferred unless the candidate has been in residence at least one year.

## ADMISSION SUBJECTS IN DETAIL.

*Greek.*—Greek Grammar, and Prose Composition as found in White's First Lessons in Greek, or equivalent, and four books of Xenophon's Anabasis. 2 units.

*Advanced Greek.*—Homer's Iliad, six books, including Prosody. 1 unit.

*Latin.*—Latin Grammar, and Prose Composition as found in Collar and Daniel's First Latin Book, four books of Cæsar's Commentaries, and six orations of Cicero, including *For the Manilian Law.* 3 units.

*Advanced Latin.*—Virgil's Aeneid, Books I-VI, including Prosody. 1 unit.

*English.*—Preparation in English should include

four years and at least four periods a week. The number of works read and studied and the kind of selections should follow in general the "Official List."

## BOOKS FOR STUDY

GROUP I. DRAMA—*One to be selected.* Shakespeare: Macbeth, Hamlet.

GROUP II. POETRY—*One to be selected.* Milton: L'Allegro, Il Penseroso, Comus.

Book IV of Palgraves's Golden Treasury (*First Series*) with special attention to Wordsworth, Keats, and Shelley.

GROUP III. ORATORY—*One to be selected.* Burke: Speech on Conciliation with America.

Washington's Farewell Address, Webster's First Bunker Hill Oration, and Lincoln's Gettysburg Address.

GROUP IV. ESSAYS—*One to be selected.* Macaulay: Life of Johnson. Carlyle: Essay on Burns, with a brief selection from Burns' Poems.

## BOOKS FOR READING.

GROUP I. *Two to be selected.* The Old Testament—at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther. The Odyssey—with the omission, if desired, of Books I-V, XV, and XVI. The Aeneid. For any book from this group a book from any other group may be substituted.

GROUP II. DRAMA—*Two to be selected.* Shakespeare: Merchant of Venice, As You Like It, Julius Cæsar.

GROUP III. PROSE FICTION—*Two to be selected.* Dickens: A Tale of Two Cities. George Eliot: Silas Marner. Scott: Quentin Durward. Hawthorne: The House of Seven Gables.

GROUP IV. ESSAYS, BIOGRAPHY, ETC.—*Two to be selected.* Addison and Steele: The Sir Roger de Coverly Papers. Irving: The Sketch Book—selections covering about 175 pages. Macaulay: Lord Clive. Parkman: The Oregon Trail.

GROUP V. POETRY—*Two to be selected.* Tennyson: The Coming of Arthur, Gareth and Lynette, Lancelot and Elaine, The Passing of Arthur.

Browning: Cavalier Tunes, the Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts

from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus,—" Instans Tyrannus.

Scott: The Lady of the Lake.

Coleridge: The Ancient Mariner; and Arnold: Sohrab and Rustum.

*German.*—German Grammar as found in Joynes-Meissner's Grammar. The student must also have read 250 to 300 pages of German prose and poetry and must have the ability to translate simple English prose into German (about 100 lessons). Some of the books recommended for reading are Glück Auf, Storm's Immensee, Heyse's L'Arrabbiata, Hauff's Das Kalte Herz, Hillern's Hocher als die Kirche, Zschokke's Der Zerbrochene Krug, Gerstaecker's Germelshausen. 2 units.

*Advanced German.*—As recommended by the Modern Language Association of America, this work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and the subjunctive), and likewise in word order and word formation. 1 unit.

*French.*—French Grammar. The student must also have read 100 to 175 pages of French in graduated texts and 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches, and must have the ability to translate simple English prose into French. Among the texts that we recommend are: Aldrich and Foster's Grammar, Aldrich and Foster's Reader, Sanderson's Through France and the French Syntax, Bacon's Une Semaine á Paris, Laboulaye's Contes Bleus, Feuillet's Roman d' un Jeune Homme Pauvre. 2 units.

*Mathematics.*—Arithmetic including the Metric System, Wentworth's Higher Alegbra thru Quadratics, and Wentworth's Plane Geometry. 2½ units.

*Advanced Mathematics.*—Solid Geometry. ½ unit.

*History.*—

(a) American History and Civics. 1 unit.
(b) Greek and Roman History. 1 unit.
(c) English History. 1 unit.
(d) General History. 1 unit.

*Science.*—Physical Geography, Physiology, Zoology, Botany and Astronomy will each count one-half unit. Chemistry and Physics, if accompanied by laboratory work, will each count one unit.

## COURSES OF INSTRUCTION.

There are three courses, under which the various subjects are grouped, the *Classical,* the *Scientific* and

the *Philosophical.* With a necessary nucleus of required studies there is combined in the higher classes such a range of electives as may properly be left to the choice of the individual student. But even among electives certain studies are required of or recommended to those who are preparing for theology or medicine. All other students have as wide and free a choice as a liberal or scientific collegiate education, and the attestation which the respective degrees ought justly and historically to give, and will wisely permit.

*The Course in Arts,* ending in the degree A.B., looks to the general liberal culture, which is a prerequisite for any of the learned professions or for specialization in cultural subjects in university work. The studies in the Course in Arts are also those which will most benefit any man seeking a higher education, that is becoming so valuable in any walk of life, and especially the higher business interests of our age.

*The Course in Science,* ending in the degree B.S., with a broad basis of general knowledge places Modern Languages and Mathematics in the center. It offers a good collegiate preparation for special university work in the Sciences, and is of advantage to the future student of medicine. At the same time it offers a good education for young men who intend to devote themselves to any of the industrial arts.

*The Course in Philosophy,* ending in the degree Ph. B., is planned in response to a growing demand for a course in which Philosophy, History, Economics and

the Modern Languages should hold the most prominent place. This course aims to lay a broad and deep foundation in the subjects considered essential for a successful career in business or the various professions, while imparting the knowledge, the culture and the training absolutely necessary for the solution of the current problems in philosophy and religion, as well as for the full and satisfactory performance of the daily duties of intelligent citizenship. The course is especially offered and recommended to teachers and young men of more advanced age who have never studied the ancient languages, but otherwise have had sufficient preparation to benefit by the study of the many important subjects so intimately connected with the thought, the culture and the progress of modern life.

*Special courses* may be chosen in those departments where it is deemed advisable. But under no conditions will any student be allowed to do so unless he presents the full requirements for admission to the Freshman class.

## ADVISERS.

Members of the faculty have been appointed to advise students about their studies, schedules, electives, and kindred matters. Students should consult these advisers at the beginning of each year and receive their approval of the work for the year. The advisers are as follows:

For A.B. Group, Prof. Robert C. Horn.
For B.S. Group, Prof. Albert C. H. Fasig.
For Ph.B. Group, Prof. John D. M. Brown.
For Pre-Med. Group, Prof. Harry D. Bailey.
For Special Students, Mr. Gurney F. Afflerbach.

## SYSTEM OF CREDITS FOR GRADUATION.

The three degrees, A.B., B.S. and Ph.B., are conferred only on the satisfactory completion of seventy-two units of work.

## UNIT OF WORK.

One hour of lecture or recitation work a week thruout the year, or two hours of laboratory work a week thruout the year, are accredited as one unit.

| | |
|---|---|
| Total number of units required of Freshmen..... | 20 |
| Total number of units required of Sophomores..... | 20 |
| Total number of units required of Juniors ..... | 16 |
| Total number of units required of Seniors ..... | 16 |
| Total number of units required for graduation.... | 72 |

## UNITS FOR PROMOTION.

Any student who has completed as many as 16 units of Freshman work at the end of his Freshman year shall be promoted to the Sophomore Class. The units not satisfactorily completed shall be counted as conditions which must be removed during the first term of the following year.

Any student who has completed as many as 36 units

of college work at the end of the Sophomore year shall be promoted to the Junior class. The units not satisfactorily completed shall be counted as conditions which must be removed during the first term of the following year.

Any student who has completed 56 units of college work at the end of his Junior year shall be promoted to the Senior Class. No student will be admitted to the Senior Class if he has any conditions whatsoever.

Any student who fails of promotion to a higher class, must take over again in class those studies in which he has failed. If he shows special fitness he may be allowed to take some studies with the next higher class; but he ranks as a member of the class from which he was not promoted.

## REQUIRED COURSES.

### A. B. GROUP.

#### Freshmen.

| | Units |
|---|---|
| Religiou ..... 1 | 2 |
| Greek .....53 or 50 | 3 or 4 |
| Latin .....71 and 72 | 4 |
| English .....90, 93 and 102 | 3 |
| German .....110 | 2 |
| or | |
| French .....130 | 3 |
| History .....170 | 2 |
| Mathematics .....200, 201, 202 | 3 |
| Physical Culture ..... | 1 |
| Total .....20 or 21 | |

### Sophomores.

| | Units |
|---|---|
| Religion .....2 | 2 |
| Greek .....54 or 51 | 3 |
| Latin .....73 and 74 | 3 |
| English .....94, 91 and 103 | 3 |
| German .....112 or 113 | 2 |
| or | |
| French .....131 | 2 |
| History .....171 | 2 |
| Mathematics .....203, 204, 205, 206 | 2 |
| Chemistry .....230, 231 | 2 |
| Physical Culture ..... | 1 |
| Total .....20 | |

### Juniors.

| | Units |
|---|---|
| Religion ..... 3 and 4 or 6 and 7 | 2 |
| N. T. Greek .....55 | |
| Philosophy .....20 and 21 | 2 |
| English .....95 or 96 | 2 |
| Physics .....220 | 2 |
| Total ..... | 8 |

### Seniors.

| | Units |
|---|---|
| Religion .....9 or 10 and | 2 |
| Ethics .....24 | |
| English .....95 or 96 | 2 |
| Total ..... | 4 |

## B. S. GROUP.

### Freshmen.

| | Units |
|---|---|
| Religion .....1 | 2 |
| English .....90 | 2 |

| | | |
|---|---|---|
| German | 110 or 111 | 3 |
| or | | |
| French | 130 | 3 |
| History | 170 | 2 |
| Mathematics | 200, 201, 202 | 3 |
| Chemistry | 232, 233, 234 | 5 |
| Biology | 250 | 2 |
| Physical Culture | | 1 |
| Total | | 20 |

SOPHOMORES.

| | | Units |
|---|---|---|
| Religion | 2 | 2 |
| English | 94, 91 and 103 | 3 |
| Two Languages | | |
| German | 112 or 113 | 2 |
| French | 131 | 2 |
| Spanish | 151 | 2 |
| Greek | 52 | 2 |
| Mathematics | 203, 204, 205, 206 | 2 |
| Chemistry | 234, 235 | 4 |
| Biology | 251 | 4 |
| Physical Culture | | 1 |
| Total | | 20 |

JUNIORS.

| | | Units |
|---|---|---|
| Religion | 3 and 4 or 6 and 7 | 2 |
| Philosophy | 20 and 21 | 2 |
| Physics | 221, 222 | 5 |
| Biology | 252, 253 | 4 |
| Total | | 13 |

SENIORS.

| | | Units |
|---|---|---|
| Religion and Ethics | 9 or 10 and 24 | 2 |

| | | |
|---|---|---|
| Chemistry | 236 | 5 |
| Biology | 254, 255 | 4 |
| Total | | 11 |

## PH. B. GROUP.

### FRESHMEN.

| | | Units |
|---|---|---|
| Religion | 1 | 2 |
| English | 90, 93 and 102 | 3 |
| Two Modern Languages | | |
| French | 130 | 3 |
| German | 110 or 111 | 2 |
| Spanish | 150 | 2 |
| History | 170 | 2 |
| Mathematics | 200, 201, 202 | 3 |
| Chemistry | 232, 233, 234 | 5 |
| or | | |
| Latin | 71 and 72 | 4 |
| Physical Culture | | 1 |
| Total | | 20 or 21 |

### SOPHOMORES.

| | | Units |
|---|---|---|
| Religion | 2 | 2 |
| English | 94, 91 and 103 | 3 |
| Two Modern Languages | | |
| German | 112 or 113 | 2 |
| French | 131 | 2 |
| Spanish | 151 | 2 |
| Additional French | 132 | |
| or | | 2 |
| German | 119, 120 | |
| History | 171 | 2 |
| Latin | 75 | 2 |
| Mathematics | 203, 204, 205, 206 | 2 |
| Biology | 263 | 2 |

| | |
|---|---|
| Physical Culture | 1 |
| Total | 20 |

JUNIORS.

| | | Units |
|---|---|---|
| Religion | 3 and 4 or 6 and 7 | 2 |
| Philosophy | 20 and 21 | 2 |
| English | 95 or 96 | 2 |
| History | 172 or 173 | 1 |
| Economics | 190 | 2 |
| Physics | 220 | 2 |
| Total | | 11 |

SENIORS.

| | | Units |
|---|---|---|
| Religion and Ethics | 9 or 10 24 | 2 |
| English | 95 or 96 | 2 |
| History | 174 | 2 |
| Sociology | 191 | 2 |
| Total | | 8 |

NOTE.—These are the normal courses; in certain cases substitutions may be allowed by the advisers of the different groups, with the approval of the faculty.

## ELECTIVES.

The minimum number of units in the Junior year shall be sixteen, and in the Senior year sixteen. In both of these years a sufficient number of elective units must be chosen, which if added to the required units, will total these numbers. The maximum number of units allowed for the upper classes is eighteen. As

stated elsewhere, all electives must be handed to the Dean on or before June 1st of the year when the elective course is to be taken. The major part of the electives should be chosen from the related subjects of a group.

JUNIOR ELECTIVES.

Religion .....3 and 4 or 6 and 7
Ancient Languages—Greek .....55, 56, 57
Latin .....76, 77, 80
English .....92, 97, 98, 99, 100, 104, 106, 107, 108
History .....172, 173, 176
Chemistry .....237
Mathematics .....208, 211, 212
Pedagogy .....30, 31
Music .....40
Modern Languages—German .....114, 115, 118, 120
French .....132
Spanish .....152, 153
Italian .....160
Economics .....190
Physics .....222
Biology .....257, 258, 259, 260, 261, 262

SENIOR ELECTIVES.

Religion .....9 or 10
Philosophy .....22, 23
Ancient Languages—Greek .....55, 56, 57
Latin .....78, 79, 80
English ....92, 97, 98, 99, 100, 104, 105, 106, 107, 108
History .....174, 176
Chemistry .....237
Mathematics .....209, 210
Pedagogy .....32, 33, 34
Music .....41
Modern Languages—German .....116, 117, 118, 121
French .....133
Spanish .....153, 154
Italian .....160

Sociology .....191
Biology .....256, 257, 258, 259, 260, 261, 262, 264
Geology .....270

## RELIGION.

*The President and Prof. Fritsch.*

It is essential in a fully developed man that he be conscious of his religious relation, and that he possess adequate and clear ideas of his belief. To aid in this Muhlenberg College has definite courses in religion. These cover the facts and truths of the Bible, and finally endeavor to co-ordinate the moral and religious outlook with modern thought.

Beside these courses there is required daily chapel service. Students are also expected to attend a church of their choice.

REQUIRED OF ALL FRESHMEN.

1. CHARACTER STUDIES IN THE BIBLE. (2)

Beginning with a careful study of the Old Testament characters, this course continues in the second term with a survey of the New Testament. The historical facts are correlated with the biographic studies.—Prof. Fritsch.

REQUIRED OF ALL SOPHOMORES.

2. THE BASIS OF NEW TESTAMENT TRUTH. (1)

A course of lectures on the main doctrines of the New Testament, calculated to give the student clear conceptions of Christian Truth.—The President.

JUNIORS CHOICE OF ELECTIVES.

Either 3 and 4, or 5, or 6 and 7

3. THE SOCIAL CONDITIONS, INSTITUTIONS AND IDEALS OF THE BIBLE. (1st term). (1)

A course of lectures on the social element of the Old and New Testaments.—The President.

4. CHRISTIANITY AND OTHER RELIGIONS. (2nd term).

A study of leading non-Christian religions compared with Christianity.—The President.

5. N. T. GREEK AND ECCLESIASTICAL LATIN.

Prof. Horn and Dr. Ettinger.

For these courses, see Greek 55 and the statement of the Department of Latin.

6. HISTORY OF CHRISTIAN MISSIONS. (1st term). (1)

A full course in the history of Christian Missions.—Prof. Fritsch.

7. HISTORY OF THE BIBLE. (2nd term). (1)

A history of the Bible, its translations, its books and literature.—Prof. Fritsch.

SENIORS.

Course 8 required; 9 or 10 required.

8. COURSE IN ETHICS (PHILOSOPHY No. 24). (1st term) (1)

9. TREND OF THOUGHT AND CHRISTIAN TRUTH. (2nd term).

A comparison of modern logical positions in Science and Philosophy with Christian Truth. Text. Haas, Trends of Thought and Christian Truth.—The President.

10. CHRISTIAN THEISM. (2nd term). (1)

A course of lectures in the main argument for theism.—The President.

## PHILOSOPHY.

*The President and Dr. Wright.*

The purpose of the courses in Philosophy is to develop the power of clear reasoning and accurate statement, to show the value of philosophical system, familiarize with philosophical terms and indicate the movement of philosophical thought.

The study of Psychology is to prepare for a general understanding of the relation of mind and body. The course in Logic is to show the underlying principles of thought and science. History of Philosophy presents the great philosophical problems in their historic connections. Aesthetics is to give an insight into the ideals and principles of the beautiful. Ethics is the necessary supplement to general philosophical study, but also has important practical bearings. All these courses look only to general principles, but prepare for detailed post-graduate university work.

REQUIRED OF ALL JUNIORS.

20. PSYCHOLOGY. 1st term (1)

DR. WRIGHT.

The problems of the distinction of psychology and physiology, sensations, perceptions, feeling, thought, volition, the self, etc., are studied in outline, preparing for larger, fuller work. Pillsbury, Essentials of Psychology. (Lectures and parallel references to James, Judd, Angell, Seashore.)

21. LOGIC. 2nd term (1)

DR. WRIGHT.

This course embraces the principles of deductive and inductive logic. It discusses the concept, judgment, division, classification, syllogisms, fallacies; agreement, difference, causation, hypothesis, analogy, probability, etc. Sellar's Essentials of Logic.

ELECTIVE FOR SENIORS.

22. HISTORY OF PHILOSOPHY. (3)

THE PRESIDENT.

An intensive course in ancient and modern philosophy on the basis of Cushman, History of Philosophy, Vols. I and II.

Lectures, readings and discussions of philosophical problems. Senior elective, three hours, thruout the year.

23. AESTHETICS. (1)

PROF. BROWN.

Lectures and reports on the development, the principles, and the relations of the fine arts. A survey of the art of all countries and periods from the Egyptian era to the Twentieth Century, with special attention to the architecture and sculpture of Greece, and the architecture of the Christian Church culminating in the Medieval Cathedral. Readings in Lessing, Ruskin, and Tolstoi.

REQUIRED OF ALL SENIORS.

24. ETHICS. (1)

THE PRESIDENT.

This course includes lectures and discussions on the foundation of ethics and its relation to religion, Hedonism, Rationalism and Personalism; free will, the conscience, virtue, duty, pessimism; and a practical outline of personal and social ethical relations and duties.

## PEDAGOGY.

*Doctor Wright.*

The following courses are offered for those students who are preparing to teach after graduation from college. The successful completion of two hundred hours' work will entitle the graduate to the Provisional College Certificate, a license to teach in the public schools of Pennsylvania.

ELECTIVE FOR JUNIORS.

30. HISTORY OF EDUCATION. (1)

An elementary course in the history of education. The theories and practices of each period are interpreted in the

light of the prevailing social conditions and philosophical, scientific, and spiritual tendencies. Junior elective, two hours, first semester.

31. History of American Education. (1)

An historical survey of education in the United States, the development of the public elementary schools, the Latin Grammar School, the Academy, the High School, the Junior High School, the Vocational School, the Normal School, the work of Horace Mann, Henry Barnard, W. T. Harris, modern tendencies. Junior elective, two hours, second semester.

ELECTIVE FOR SENIORS.

32. Educational Psychology. (3)

It is the aim of this course to present the material which is relevant to the problems of the learning process, to maintain a strictly experimental viewpoint in discussing these problems, to consider tests of intelligence, studying, transfer of training in school work, and the assignment of marks. Senior elective, two hours lecture and recitation and two hours laboratory thruout the year.

33. Principles of Education. (2)

A study of the philosophical and scientific principles underlying the science of education. Senior elective, two hours thruout the year.

34. Secondary Education. (2)

This course deals with the development, administration, organization, supervision, and general methods of the junior and senior high school. Senior elective, two hours thruout the year.

35. Geography.

To meet the need of certain members of the Freshman class this department offers a course in topography, map making, and map reading. A study of the earth from the physical,

regional, and economic point of view. Two hours, thruout the year.

METHODS OF TEACHING SPECIFIC SUBJECTS.

The following courses, covering two semester hours, are offered by the several departments of the college. It is recommended that at least two be taken by the men preparing to teach. Methods of teaching Greek and Latin, English, Natural Sciences, Physics and Chemistry, Modern Languages, History and Government, Mathematics.

## MUSIC.

*Mr. Marks.*

This department does not aim to give formal instruction on any specific instrument, much less to turn out so-called "finished musicians." The object of the courses offered is to afford the student a comprehensive knowledge of the theory and history of music so that he can the better appreciate their true place and value as an element of culture in the development of the individual.

ELECTIVE FOR JUNIORS.

40. THE THEORY OF MUSIC. (1)

The Elements of Music, Harmony, Form.

ELECTIVE FOR SENIORS.

41. THE HISTORY OF MUSIC. (1)

Antiquity, Music of the Early Christian Age, Polyphonic Music, The Lutheran Reformation, Schools of Music, Contemporary Composers, Biography.

## THE ANCIENT LANGUAGES.

### GREEK

*Professor Horn*

The aim of the four years' work is to give the student so firm a grasp of grammar and so large a vocabulary that he will be able with comparative ease to read any ordinary (Attic) Greek text, and at the same time to make him familiar with the best writers of Greece, and to give him an intelligent acquaintance with Greek history, geography, institutions, and culture. The work will be such that a student will be fitted for graduate work at the larger institutions of learning. Throughout the course, stress is laid upon the geography and history of Greece. The department is furnished with the best ancient maps, and every aid will be afforded the student for geographical work. In the college library there will be reserved many books, to which students will be frequently referred, and which will be in constant use.

The Department is supplied with a number of photographs and lantern slides illustrating Greek art and architecture, history and private life; these will be used for the purpose of instruction.

Each member of every class should own the following books: Goodwin, Greek Grammar, revised edit.; Goodwin, Moods and Tenses of the Greek Verb, new edit.; Kiepert's Atlas Antiquus, or Putzger's Historical School Atlas, or Grundy's Small Classical Atlas

(Oxford University Press), or Ginn and Co.'s Classical Atlas; Smith's Smaller Classical Dictionary; Liddell and Scott's Greek Lexicon, unabridged, preferably one of the latest editions. Note books will be needed.

50. BEGINNERS' GREEK (4)

This course is intended for nature students who enter college without Greek and are eager to make up their loss. The progress is rapid, for the student must master the elements of the language and gain the ability to read some Greek, in connection with which there will be work in Prose Composition. Candidates for the degree of A. B. who begin Greek in college are required to take Greek for three years. Allen's First Year of Greek, and Rouse's A Greek Boy at Home.

51. SECOND YEAR GREEK. (3)

This course is to be taken by candidates for the A. B. degree in their Sophomore year, who have taken Beginners' Greek in their Freshman year. The work will consist of the reading of Xenophon's Anabasis and parts of Herodotus, with Prose Composition. Xenophon's Anabasis, Mather and Hewitt; Farnell's Tales from Herodotus; Pearson's Greek Prose Composition.

52. GREEK FOR SCIENTIFIC STUDENTS. (2)

This course is elective for scientific students who wish to lay a firm foundation for their scientific vocabulary. Stress will be laid upon transliteration, vocabulary, and word-formation. After the more common Greek words in English have been studied, there will be study of the more special scientific terminology. Hoffman's Everyday Greek.

53. FRESHMAN GREEK. (3)

LYSIAS AND PROSE COMPOSITION. First Term.

ILIAD. Second Term.

Required of A. B. Freshmen, who enter college with Greek, and of A. B. Juniors who began Greek in college. Morgan's

Eight Orations of Lysias; Mierow's Greek Syntax; Benner's Selections from the Iliad.

54. Sophomore Greek. (3)

Plato's Apology and Crito and Selections from Phaedo. First Term.

Greek Tragedy. Second Term.

Required of A. B. Sophomores who entered college with Greek. Plato's Apology and Crito, Dyer, revised by Seymour; Euripides, Alcestis, Jerram; Sophocles' Antigone, D'Ooge; Jebb's History of Greek Literature.

Electives for Juniors and Seniors.

55. Greek New Testament. (2)

A large part of the Greek New Testament will be read and interpreted. Stress will be laid upon the language and content. There will be lectures and reports. Westcott and Hort's Greek New Testament.

56. Greek Drama. (2)

One play each of Aeschylus, Sophocles, Euripides, and Aristophanes. A study of the development of Greek Tragedy and Comedy.

57. Greek History. (2)

Two hours a week. The course will consist of required reading, lectures, and reports. Some of the reading will be in the original Greek.

## LATIN.

*Dean Ettinger.*

The courses offered in this department are intended to afford the student such a knowledge of the language,

the thought, the life and the antiquities of the Roman people and the "Eternal City" as an intelligent cultured American of today may be justly expected to possess. Without aiming to train Latin philologians or Roman archæologists, which is altogether the business of the university, Muhlenberg College offers such courses based on the study of the masterpieces of Roman Literature as will afford an accurate and comprehensive survey of the character, the history and the achievements of this wonderful people, the important part they played in the development of the human race and their contributions to the Modern Languages, literatures, jurisprudence and government in general. The work in this subject furthemore aims to lay the broad and deep foundations so necessary for successful post-graduate study.

That the student may receive the fullest benefit from the courses in this department, it is absolutely essential that he bring with him, when entering college, such a knowledge of the fundamentals of Latin Grammar and elementary Latin prose composition, together with a fair and ready command of the vocabulary of the Roman speech as will enable him to take an active and intelligent part in the work of the classroom In this connection we cannot too strongly emphasize the importance of honest and sufficient work in the preparatory school.

[Allen and Greenough's Latin Grammar is used as the general authority and all students are urged to

provide themselves with Harper's Larger Latin Dictionary, as the smaller dictionaries will not suffice for the work in the higher classes. The Roman system of pronunciation is used.]

70. Beginners' Latin.

Especially offered for the benefit of students of more advanced years who have the ability and the determination to fit themselves for more extended work in Latin. Text books selected to suit conditions. First term, four hours a week. Freshman year.

Freshman Latin.

71. Livy—Sallust—Cicero. (3)

Selections from Livy's History of Rome, Sallust's Catiline and Cicero's Letters, with special attention to the vocabulary, forms and construction. ("Selections from Livy, Sallust, Cicero," edited by Scoon, Mierow and Jones, published by Allyn and Bacon, Boston.) Required of A. B. Freshmen, three hours a week, thruout the year.

72. Latin Grammar and Prose Composition. (1)

A careful review of the grammar combined with original work in composition on the part of the student. Thruout the year, one hour. (Allen and Greenough's Latin Grammar and the various texts read in class.)

Sophomore Latin.

73. Horace. (1½)

Selections from the Odes, the Satires and the Epistles, especially the Ars Poetica, with special study of the biographical, historical and mythological allusions and frequent practice in scanning the meters of Horace. (Bennett and Rolfe's Complete Horace.) Required of A. B. Sophomores three hours a week, first semester.

73b. History of Rome.

In connection with course 73, a history, required of A. B. Sophomores, first semester.

74. Latin Anthology. (1½)

With a formal study of Latin Literature. ("Latin Selections," edited by Smith, revised by Clement, published by Allyn and Bacon, Boston; and Mackail's "Latin Literature," published by Scribner, New York. Required of A. B. Sophomores, three hours a week, second semester.

75. What Greece and Rome Have Contributed To Modern Life. (2)

Based on lectures and readings in standard works on Greek and Roman life and thought. No knowledge of Greek or Latin is needed for this course. Required of all Ph. B. Sophomores, elective for all others. Two hours a week thruout the year.

Electives.

76. Cicero. (1)

De Oratore. Selections with a survey of Roman oratory and special reference to the rhetorical value of the work. (Owen's De Oratore, published by Sanborn and Co., Boston.) Elective for Juniors, two hours a week, first semester.

77. Plautus and Terence. (1)

The Captives and the Andria, with an introductory study of Roman Comedy. (Elmer's Captivi and Fairclough's Andria, published by Allyn and Bacon, Boston.) Elective for Juniors, two hours a week, second semester.

78. Tacitus. (1)

The Germania and the Agricola. With a special study of the purpose of these works and the conditions of the period of Roman History. (Church and Brodribb's Agricola and

Germania, published by Macmillan, New York.) Elective for Seniors, two hours a week, first semester.

79. LUCRETIUS. (1)

Selections from De Rerum Natura with a survey of Roman Philosophy. (Lee's Lucretius, Books I-III, published by Macmillan, New York.) Elective for Seniors, two hours a week, second semester.

80.

Elective courses in Roman Antiquities, Roman Archaeology, Early Latin, Roman Law, Ecclesiastical Latin, Latin Literature in English and kindred subjects will be offered whenever a sufficient number of students express a desire for such courses.

## ENGLISH.

*Professors Simpson and Brown.*

The courses in English are planned to give in the first two years a thoro drill in composition, oral and written; some acquaintance with the fundamental ideas of literary criticism as applied to the principal types of verse and prose; and a general knowledge of the historical outlines of English literature.

In choosing their electives in the Junior and Senior years students are advised to supplement the required courses (the drama and the novel) by taking one or more courses in English poetry. Students who entered with poor preparation in composition and have not made up the deficiency to their own satisfaction are advised to take that subject as an elective.

## ENGLISH COMPOSITION.

PROFESSOR SIMPSON

90. FRESHMAN RHETORIC. (2)

Lessons on the principles of rhetoric, simple exposition, letter-writing, news-writing, the use of the library, interpretation of literature, and the method of writing reports. Drill by the use of a handbook like Woolley's or The Century Handbook of Writing. Longer themes and appropriate reading on national ideals and problems. Required of all Freshmen. Two hours both terms.

91. ADVANCED COMPOSITION. (½)

Essay writing in connection with the study of a collection of classic essays. Required of Sophomores. One hour second term.

ELECTIVE.

92. JOURNALISM.

The study and practice of news-writing. Elective for seniors.

## ENGLISH LITERATURE.

PROFESSOR SIMPSON

93. AMERICAN LITERATURE. (1½)

Readings in poetry and prose from the Century Readings. Required of Freshmen for A. B. and Ph. B. degrees. One hour, first term.

94. HISTORY OF ENGLISH LITERATURE. (2)

Stury of a textbook of English literature and readings from a standard collection. Required of all Sophomores. Two hours both terms.

96. DEVELOPMENT OF THE ENGLISH NOVEL. (2)

Reading of typical prose fiction from Malory to Wells. Lectures on the types of fiction and the development of the

novel. Alternates as a required course for Seniors and Juniors with 95, the Drama.

ELECTIVES.

97. ROMANTIC AND VICTORIAN POETRY. (½)

Lectures on the chief poets and readings from Page: Chief British Poets. Senior and Junior elective. One hour, first term.

98. ANGLO-SAXON.

Intended as a preparation for graduate work and for those who intend to teach English grammar or English literature.

99. SOCIAL IDEALS IN ENGLISH LITERATURE. (2)

Study of the social message of such works as Langland's Piers Plowman, More's Utopia, etc. Senior and Junior elective. Two hours both terms.

100. METHOD AND CONTENT OF ENGLISH IN SECONDARY SCHOOLS. (½)

Intended as a practical course in the teaching of English. Credit given in the Department of Education. Elective for Seniors and Juniors. One hour, second term.

## DRAMA AND GENERAL LITERATURE.

PROFESSOR BROWN

95. THE RISE AND DEVELOPMENT OF THE ENGLISH DRAMA. (2)

A study of the evolution of the English drama from the miracle plays to the dramas of Pinero, Jones, and Shaw, illustrated by the reading of representative plays of each period including all the plays of Shakespeare. Alternates as a required course for Seniors and Juniors with course 96, the Novel.

ELECTIVES.

106. MASTERPIECES OF LITERATURE.

The reading and discussion of Homer's Odyssey, Dante's

Divine Comedy, and Goethe's Faust, as typical masterpieces of the classical, medieval, and modern periods of literature. Lectures on other masterpieces of literature.

107. Masterpieces of the Drama.

The reading and discussion of representative plays from Aeschylus to Ibsen, with special attention to the development of dramatic art through the ages.

108. Contemporary Literature.

Lectures on recent Continental Literature. A survey of the novel and drama in modern France, Italy, Spain, Belgium, Holland, Germany, Austria, Scandinavia, and Russia, with the reading of representative masterpieces illustrative of the contemporary literature of each country. This course is designed to acquaint the student with European novelists and dramatists of today.

## PUBLIC SPEAKING.

Professor Brown

102. Elementary Course. (½)

Reading aloud. Instruction in the correct use of the voice. Especial attention to eradicating provincialism of speech and impurities of tone. One hour second term freshmen.

103. Advanced Course. (½)

A course in vocal interpretation of the printed page. A presentation of the principles of vocal expression with regard to literary interpretation. One hour first term-sophomores.

104. Oratory. (1)

A practical course in public speaking. The aim o fthis course is to enable the student to speak fluently and effectively before an audience. Elective for seniors and juniors. One hour both terms.

105. Advanced Oratory. (1)

The preparation and delivery of orations and addresses for

special occasions. Extemporaneous speaking.. An analytical study of the world's best orations. One hour both terms.

## THE MODERN LANGUAGES

### Professor Wackernagel, Professor Brown and Assistant Professor Fritsch

The study of the Modern Languages is a regular part of the College Course. This department receives a full proportionate share of time and attention, and stands upon the same basis in this respect as Greek, Latin or English; German, French, Spanish and Italian are taught both as living languages to be acquired as a medium of communication and as treasure-houses of scientific, theological and literary material, the key to whose wealth must be owned and readily used by the post-graduate student. Our experience enables us to assert that any student of respectable intellect and industry can acquire the ready use of these languages for conversation, business, or discourse, by embracing the advantages offered him in this department.

In addition to this practical study, a considerable portion of time is given to the direct study of Literature, and of selected works of the greatest authors.

### GERMAN DEPARTMENT.

Prof. Wackernagel and Assistant Prof. Fritsch

A course for Beginners. Two hours. Sprach und Lesebuch. Gohdes and Buschek. German Life. Allen.

110. Freshmen, A.B., Ph.B., B.S. (2)

Thomas' Practical German Grammar. Der Schwiegersohn.

111. Freshmen, Ph.B., B.S. (2)

German Science Reader. Gore.

112. Sophomores, A.B., Ph.B., B.S. (2)

Jungfrau von Orleans, Schiller. Ballads, Schiller, Griseldis, Halm.

113. Sophomore, Ph.B., B.S.. (2)

Die Chemie im taeglichen Leben. Lassar-Cohn.

114. Juniors, A.B., Ph.B., B.S. (2)

Minna von Barnhelm or Emilia Galotti, Lessing. Iphigenie auf Tauris, Goethe. Johannes, Sudermann.

115. Juniors, Ph.B., B.S. (2)

German Science Reader, Scholz.

116. Seniors, A.B., Ph.B., B.S. (2)

History of German Literature, Priest. Zwischen den Schlachten, Elster. Deutsche Liebe, Max Mueller.

117. Seniors, Ph.B., B.S. (2)

A Scientific German Reader, Kip (First Term).
Commercial German, Kutner (Second Term).

118. Course in Composition and Conversational German. (2)

Open to members of all classes.
German Composition, Whitney and Stroebe.

PROF. WACKERNAGEL

119. Scientific German for Sophomores.

Wait's Reader, followed by Dippold's Reader.

120. Commercial German.

Elective for Juniors. Kutner's Commercial German.

121. German Literature.

Elective for Seniors. Priest, History of German Literature.

## FRENCH.

PROF. WACKERNAGEL AND PROF. BROWN

PROF. BROWN

130. Elementary French. (3)

Conversation, grammar, composition, dictation, and translation. Easy modern French prose will be read. The student will be trained to understand and to speak the language. For Freshmen.

131. Intermediate French. (2)

Rapid reading of modern novels and plays. Composition and conversation based on the reading. French will be the language of the class-room. For Sophomores.

PROF. WACKERNAGEL

132. French for Juniors.

Lesage, Gil Blas; L'Abbé Constantin; and other texts.

133. French Literature.

Elective for Seniors. Dowden, History of French Literature, and Classics.

## SPANISH.

PROF. WACKERNAGEL AND PROF. BROWN

PROF. BROWN

150. Elementary Spanish. (2)

Conversation, grammar, composition, and dictation. The object of this course is to enable the student to attain an accurate reading knowledge of the language, and facility in speaking and understanding it.

151. Intermediate Spanish. (2)

Rapid reading of modern Spanish authors. Training in reading and writing business letters with special attention to South

American commercial corespondence. The class will be conducted in Spanish.

PROF. WACKERNAGEL

152. ELEMENTARY SPANISH.

Elective for Juniors. Hall, All Spanish Method.

153. INTERMEDIATE SPANISH.

Elective for Juniors and Seniors. Anecdotes, Short Stories, &c.

154. ADVANCED SPANISH.

Elective for Seniors. Lesage, Gil Blas; Cervantes, Don Quixote.

### ITALIAN.

PROF. BROWN

160. ELEMENTARY ITALIAN. (2)

Conversation, grammar, composition, dictation, and translation. Easy Italian prose will be read. The student will be trained to understand the spoken language, and to express simple ideas idiomatically. This course will be given every third year. Elective.

## HISTORY

*Rev. Harry Cressman*

The Department of History aims at the following results:

(1) To give the student a thorough knowledge of the history of the United States.

(2) To acquaint the student with the historical development of England and Continental Europe from the Renaissance to the present day.

(3) To emphasiez the relation between cause and effect in history, and to train the student to assume

a critical habit of mind in the examination of historical facts.

(4) To lay the foundation for post-graduate work.

## HISTORY.

REQUIRED OF ALL FRESHMEN

170. EUROPE SINCE 1815. (2)

An account of some of the important political events in European history since 1815, such as the Congress of Vienna and the movement of reaction; the revolutionary movements of 1830 and 1848; the union of Italy; the reconstruction of Germany and founding of the German Empire; the British Empire in 19th century; the rise of the Balkan States; the expansion of Europe in Asia and Africa; partition of Africa. Special emphasis is laid upon social conditions and industrial changes.

REQUIRED OF A.B. AND PH.B. SOPHOMORES

171. THE RISE AND DEVELOPMENT OF THE MEDIEVAL CHURCH. (2)

Early organization of the Church; the Persecutions; Christianity as the state religion; Development of the papal power; Monasticism and conversion of northern Europe; nature of the Medieval Church—its powers, jurisdiction and influence; heresies and the friars; the Popes at Avignon; the Great Schism.

REQUIRED OF PH.B. JUNIORS; ELECTIVE FOR OTHERS.

172. MEDIEVAL LIFE AND INSTITUTIONS. (½)

A discussion of some of the more important institutions of the Middle Ages, such as the judicial system of the Germans, the revival of the Roman Law, feudalism, rural and town life, the communes, education and the Universities, and the Renaissance movement.

173. STUDIES IN THE REFORMATION PERIOD AND THE FRENCH TION. (½)

A study of the intellectual, social, economic and political movements which caused the Reformation; significance and re-

sults of the movement. The causes and courses of the French Revolution, its effect upon France and other countries of Europe, Napoleon and the Napoleonic wars.

REQUIRED OF PH.B. SENIORS; ELECTIVE FOR OTHERS.

174. THE HISTORICAL DEVELOPMENT OF THE AMERICAN COLONIES DOWN TO 1789. (2)

European background and underlying motives of early voyages of discovery and exploration; the chartered companies; social, economic and religious background for English colonization; the colonial life in its various aspects; the larger phases of the colonial wars; side lights upon the Revolutionary period: economic adjustment after the war.

175. AMERICAN HISTORY SINCE 1789. (2)

Expansion of the United States; acquisition and use of public domain; movements of population; slavery, its abolition and the problems of Reconstruction; industrial, financial and commercial growth of the country; the life of the people.

ELECTIVE FOR JUNIORS AND SENIORS

176. POLITICAL PHILOSOPHY. (2)

THE PRESIDENT

A course in political theories from the early Greek period to the present. Lectures and readings. Given 1920-1921.

## THE DEPARTMENT OF SOCIOLOGY AND ECONOMICS.

*Prof. Simpson and Rev. Harry Cressman*

The aim of this department is three-fold:

(1) To give the student, as a general foundation, a survey of the principles which govern our economic and social life.

(2) To give, as far as possible, an insight into the practical problems which confront the American people; an insight which no man in our time can afford to be without, especially if he lays any claim to education and culture, and an insight which will foster study, deliberation and observation in later and maturer years.

(3) To give the foundation and elementary drill for post-graduate work.

REQUIRED OF PH.B. JUNIORS; ELECTIVE FOR OTHERS

190. ECONOMICS. (2)

PROF. SIMPSON

A study of economic theories and principles. Discussion of practical problems, such as the Conservation of Natural Resources; the Public Health Movement; the Risks of Labor; Child Labor; Women in Industry; Unemployment; Business organization; Trusts; the Tariff; the Currency Problem; the Labor Problem; Socialism; etc.

REQUIRED OF PH.B. SENIORS; ELECTIVE FOR OTHERS

191. SOCIOLOGY. (2)

REV. HARRY C. CRESSMAN

This course is designed to cover briefly the most fundamental points in sociological theory Study of cause and effect in society. The factors of physical environment, heredity, psychological influences are considered. Problem of social debtor classes. Purposive organizations for social betterment are reviewed and practical problems considered.

## MATHEMATICS.

*Professor Bauman*

This department aims at the following results:

1. To train the mind to reason clearly and logically.

2. To teach the student to be exact, quick of comprehension, and systematic in presentation.

3. To impart facility in applying mathematical principles to practical problems.

4. To lay the foundation for future special work in the various branches of the subject.

### FRESHMAN MATHEMATICS

200. HIGHER ALGEBRA. (2)

Radicals, imaginary quantities, quadratic equations, proportion, progressions, binomial theorem, logarithms, permutations and combinations, series, theory of equations, including graphical representation of functions, and Horner's Theorem. Wentworth's Higher Algebra.

Students who present Higher Algebra for entrance will take Physiography 211 and Meteorology 212 instead of this course.

201 AND 202. SOLID GEOMETRY AND PLANE TRIGONOMETRY. (1)

201. *Solid Geometry.* Lines and planes in space, polyhedral angles, prisms, pyramids, similar polyhedrons, cylinders, cones, prismatoid formula, numerous practical problems. Wentworth's Revised Solid Geometry.

202. *Plane Trigonometry.* Trigonometrical functions, solutions of right triangles, practical applications. One hour a week for Freshmen during the spring. Wentworth's Plane Trigonometry.

Students who present Silod Geometry and Plane Trigonometry for entrance will take Analytical Geometry instead of this course.

211. PHYSIOGRAPHY. (1)

This course is elective and is especially intended for those who owing to circumstances cannot elect Geology, Astronomy,

and Meteorology as principal subjects, and yet desire a fair knowledge of the facts and principles of these sciences. Elective for Juniors; required of Freshmen who offer Higher Algebra for entrance. One hour a week thruout the year.

212. METEOROLOGY. (1)

This embraces the elements of the science as given in Davis' Elementary Meteorology, together with practical work. Elective for Juniors; required of Freshmen who offer Higher Algebra for entrance. One hour a week thruout the year.

SOPHOMORE MATHEMATICS.

203, 204, 205, 206. (2)

203. *Trigonometry.* Goniometry, solutions of plane oblique triangles, numerous practical applications in the measurement of heights and distances, right and oblique spherical, application to astronomical problems.

204. *Surveying.* Land surveying, triangulation, leveling, railroad surveying, many practical problems and some illustrative field work. (See under 206.)

205. *Spherical Geometry.* Sections of spheres, tangents to spheres, spherical triangles, measurement of spherical surfaces and volumes, practical applications. Wentworth's Revised Solid Geometry.

206. *Navigation.* Plane sailing, parallel and middle latitude sailing, traverse sailing; some nautical astronomy. Wentworth's Trigonometry, Surveying and Navigation.

203, 204, 205, 206 are taken up in succession making a course of 2 hours a week for the year.

ELECTIVE FOR JUNIORS.

208. ANALYTICAL GEOMETRY, PLANE AND SOLID. (2)

This is an extensive course based on Wentworth's text on the subject, requiring two hours a week, and includes the properties of lines, curves, circles, ellipses, parabolas, hyperbolas, higher plane curves and various solids, with numerous problems.

ELECTIVE FOR SENIORS.

209. CALCULUS. (2)

Differentiation of algebraic and transcendental functions. Integration of monomials, binomials, rational fractions and infinite series, together with double integration and many practical applications in the calculation of areas, volumes, surfaces, moment of inertia, etc. Osborne's Differential and Integral Calculus. Two hours a week.

210. GENERAL ASTRONOMY. (2)

This course includes a thorough study of the facts and theories of astronomy together with mathematical demonstrations. The study is illustrated by field work with a good portable four-inch telescope. Young's General Astronomy.

## DEPARTMENT OF NATURAL AND APPLIED SCIENCE

### PHYSICS AND CHEMISTRY

### ASST. PROF. FASIG AND MR. AFFLERBACH

The course in Physics and Chemistry is intended to be intensive rather than extensive. The endeavor is made to teach *thoroughly* and impart a clear-cut knowledge of the *fundamentals* of the above-named sciences. The attention of the student is also directed to their practical applications.

The primary object of the course in physics and chemistry is to furnish the classical student a basis for the explanation of the phenomena presented to him in his daily life. The elective work will prepare the student for advanced work after graduation.

In the laboratories the student receives the *personal*

attention of the professor and instructor during the laboratory period. The laboratories are open, however from nine a. m. to five p. m. every day, so that work may be done during any part of the day, provided that it will not interfere with other classes.

Stress is laid on the keeping of a notebook on both the lecture and laboratory work. The notebooks are carefully corrected and returned to the student with suggestions and references to the work in hand. If the laboratory work be poorly done, it will be repeated until good results are obtained. But if after earnest effort the pupil cannot find the error the professor will review with him that part of the work in which the error occurs.

## PHYSICS.

REQUIRED OF A.B. AND PH.B. JUNIORS.

220. General Physics. (2)

Lectures and recitations. The endeavor is made to present the subject in such a way that its different branches may be correlated in one science of energy. The lectures are illustrated and all the experiments planned to keep the above object in view.

The phenomena and practical applications based on physical principles with which the student comes in daily contact are especially emphasized.

REQUIRED OF B.S. JUNIORS.

221. College Physics. (2)

Standard college course.

222. Laboratory Work in General Physics. (2)

The experiments are for the most part quantitative in character and give practice in mechanics, heat, light, electricity and

sound. The laboratory work will be prefaced by several lectures on methods, determination and use of data, graphic methods, interpretation of results, etc. Elective for A.B. and Ph.B., required of B.S. Juniors.

## CHEMISTRY.

REQUIRED OF A.B. SOPHOMORES.

230. General Course. (1)

This course constitutes an introduction to the study of chemistry. No previous knowledge of the subject will be assumed. The work of the first term is devoted to the laws and theories on which the science is built. The remainder of the year is devoted to the study of the metals, their occurrence, preparation and industrial value.

231. Laboratory—General Chemistry. (1)

The work will be devoted particularly to the study of acids, bases, salts, air, water and a short course in the separation of the metallic and acid radicals.

REQUIRED OF B.S. AND PH. B. FRESHMEN.

232. General Chemistry for B.S. Students. (2)

This is a more advanced and thoro course that 230.

233. Laboratory—General Chemistry. 1st Semester (1½)

This course is particularly designed to supplement course 232. It is designed to illustrate and elucidate the fundamental principles of the science; to exemplify the simpler methods of chemical preparation and to develop the manipulative skill of the student.

234. Laboratory—Qualitative Analysis. Second Semester (1½)

This is mainly a laboratory course, with frequent conferences and quizzes on the chemical reactions involved and lecture demonstrations on the practical work. The separation of the more common metallic and acid radicals forms a basis of the laboratory work. The endeavor is made to have the work so done that the student will be enabled to analyze any mineral or in-

organic technical product, soluble or insoluble. Prerequisite 233.

REQUIRED OF B.S. SOPHOMORES; ELECTIVE FOR OTHERS.

235. QUANTITATIVE ANALYSIS (Lectures, Recitations and Laboratory Work.)

The course will be divided into three parts: (1) Calibration of weights, flasks, etc. (2) Volumetric analysis. (3) Gravimetric analysis. While the more familiar determinations in these groups will be required, the amount of ground covered in each will depend on the student's ability and the time he can devote to the subject. Prerequisite 232, 233, 234.

REQUIRED OF B.S. SENIORS.

236. ORGANIC CHEMISTRY. (5)

Lectures, recitations and laboratory work. The lecture and laboratory courses combined give a thorough knowledge of the elementary compounds of carbon. Text-book: Organic Chemistry, Perkins and Kipping. Prerequisite 232, 233.

ELECTIVE FOR JUNIORS AND SENIORS.

237. TECHNICAL ANALYSIS. (3)

Cement, clays, iron, steel, soap, oils, fuels, ores, and gas analysis. In many of the above, such as cement and clays, the physical tests will also be made. Prerequisite 232, 233, 234, 235.

## DEPARTMENT OF BIOLOGY

PROFESSOR BAILEY AND MR. WORSINGER

The courses of the Biological Department have been arranged to offer work to the students throughout the Freshman, Sophomore, Junior and Senior years.

The courses have been designed to meet the requirements of those students who desire general collegiate culture and also those who expect to enter the professions of medicine and teaching.

Throughout the work emphasis will be laid upon the economic features of the science and whenever possible such forms of life will be chosen for study as possess economic as well as systematic value. Especial pains will be taken to familiarize the student with those forms of animals, insects, trees and flowers which bear some relation to man.

Considerable Biological material has been mounted up for class demonstration purposes and will be used regularly in each of the courses. A large number of lantern slides has also been accumulated and in each of the courses the class and laboratory work will be supplemented by illustrated lectures.

Following is a brief outline of the courses offered:

REQUIRED OF B.S. FRESHMEN.

250. BOTANY. Throughout the year (2)

The course includes Cryptogamic and Phanerogamic Botany. Emphasis is laid on physiology, ecology, structure and classification. Special attention is directed to such plants as bear an economic relation to man. Field work is done during the spring months.

REQUIRED OF B.S. SOPHOMORES.

251. ZOOLOGY. Throughout the year (4)

The morphology, habits, life history and classification of representative invertebrate and vertebrate animals are studied. Emphasis is laid upon the principles of heredity, the evidence and factors of evolution, and interesting instances of parasitism. Regular dissection is required. The Biological Museum contains mounted and preserved specimens of most of the local species of vertebrates and invertebrates.

REQUIRED OF B.S. JUNIORS.

252. BACTERIOLOGY. First Semester (2)

The cause and prevention of disease, the isolation and study of the various forms of bacteria in water, milk, soil and air,

the problems of water purification and sewage disposal, plant diseases, etc., are subjects included in this course. All of the important tests and methods of study evolved during the war are employed.

253. PHYSIOLOGY AND HYGIENE. Second Semester (2)

This course acquaints the student with the functions of the human body and the methods of personal hygiene. Field and laboratory work supplement book study. The course is intimately related to the daily life of the student.

REQUIRED OF B.S. SENIORS.

254. HISTOLOGY. First Semester (2)

Methods of fixing, embedding, sectioning, staining, mounting, and studying mammalian tissues constitute the work of this course. Microtomes, compound microscopes and other instruments are available for the laboratory work.

255. EMBRYOLOGY. Second Semester (2)

A study of the origin and development of the organs of the frog, chick and man is made. Problems relating to the maturation, fertilization and segmentation of the egg, the origin of the germ layers, and the early development of the principal vertebrate tissues and organs are considered. The student is required to incubate the egg of at least one vertebrate, and to imbed, section, and study the embryo of same.

REQUIRED OF PH.B. SOPHOMORES AND PRE-MEDICAL STUDENTS.

263. GENERAL BIOLOGY FOR PRE-MEDICAL AND PH.B. STUDENTS.

This course deals with the general principles, scope, method, history and subdivisions of Biology. It affords introduction to Courses 250 and 251.

ELECTIVE COURSES.

256. GENERAL BIOLOGY. (2)

This course is designed to meet the needs of those students, who because of other requirements have not been able to elect

the regular Biological courses but who nevertheless desire to obtain a general knowledge of Biological principles and phenomena before leaving college. The course aims to cover, in brief fashion, all of the important phases of Biology. It is in no respect a substitute for the regular courses. Subjects such as the following receive attention: Botany, Bacteriology, Forestry, Plant Diseases, Zoology, Distribution of Plants and Animals, Economic Biology, Evolution, Paleontology. Elective for Seniors.

257. Comparative Anatomy of Vertebrates.

The course consists of the dissection and study of fish, amphibians, reptiles, birds and mammals. The organs and systems of each animal are carefully compared with those of the other animals studied.

258. Human Anatomy.

A human body is dissected in this course. The skeleton, muscles, blood vessels, nerves and internal organs are taken up in order. Models and photographs of dissected bodies are available.

259. Economic Entomology.

The life histories of our most important beneficial and injurious insects are studied. Stress is laid on methods of control, and, as far as possible, practical work is done in the field. A mounted collection of 25,000 forms aids the student in this course.

260. Plant Histology.

Methods of staining, mounting and preserving plant material —algae, fungi, mosses, ferns and flowering plants—are studied. Each student is required to make his own collection of plant mounts.

261. Principles of Agriculture.

The soil and its improvement, fertilizers, crops, plant diseases, insect pests, pruning, grafting, productive orcharding, and the

principles of animal feeding are subjects studied in this course. The college farm affords opportunity for practical work.

262. METHODS OF TEACHING BIOLOGY.

This course is intended for prospective teachers of the Biological Sciences. Methods of class room and laboratory instruction, the equipment and care of a laboratory, the collection and preservation of field materials, etc., are included in the work.

264. PHOTOGRAPHY.

During 1919-1920 and 1920-1921 advanced work in photography is offered. The work includes the photography of field and laboratory Biological material, the making of lantern slides and photomicrographs, printing, enlarging, reduction, color photography, etc.

BIOLOGY FOR PRE-MEDICAL STUDENTS.

All pre-medical students are required to take Courses 250, 251, 252, 253, 254, 255 and 263. They may also elect Courses 257 and 258 if their schedules permit.

## DEPARTMENT OF GEOLOGY.

PROFESSOR BAILEY AND MR. WORSINGER.

270. GEOLOGY.

ELECTIVE FOR SENIORS.

The course comprises work in structural, dynamic and historical Geology. Constant use of the excellent collection of rock specimens in the Geological Museum is made. Maps are drawn, showing the relations of land and sea during each geological period, and the deposited strata and their included organisms will be carefully studied. A complete geological study of Lehigh County is made, the class taking local field trips and noting outcrops of the different rock formations. A series of charts and a collection of named fossils greatly aids the students in comprehending the plant and animal life of past geological times.

## PHYSICAL EDUCATION

### Dr. Kline and Mr. Ritter

The aim of this department is to guide the normal student to grow symmetrically and to advise the defective who are weak from heredity, poor development or ignorance how to correct these defects, and to quicken the mind to ready action through promptness in class drill.

The tabulations of the present system of medical examinations and physical measurements show the student wherein he exceeds or falls below the average. In addition to the general gymnasium exercises specific directions are given to overcome hereditary or acquired defects. The three-fold record of each student is tabulated and kept by the standard card system and at varying intervals revised by re-examinations.

Classified gymnastics and apparatus work are taught by the physical director. The well-equipped FonDersmith Gymnasium, with adjoining baths, dressing room and lockers, is provided for this work.

A large field for baseball, football, quarter mile running track and tennis courts offers the very best facilities for out-door athletics.

During the fall and spring the Freshmen and Sophomores are given out-door work and during the winter inside work in the gymnasium. Additional and special training are offered to all upper classmen.

## SPECIAL LECTURES

A number of special lectures are delivered during the college year by persons eminent for ability in vari-

ous directions; these are free to all students and alumni of the institution, and have been largely and profitably attended. This feature will be carefully maintained in the future as a source of instruction in specialties, in recent topics of interest, and for general information upon subjects not embraced in the ordinary department work.

## LIBRARY AND READING ROOM

PROF. SIMPSON, LIBRARIAN

The College Library is open as follows: 11 to 12 a. m., 2 to 5 and 7 to 9 p. m., and Saturdays 9 to 11 a. m. All books are on open shelves freely accessible to all students. The professors of philosophy, history, sociology and English literature assign a large amount of reading to be done in the library; four or more copies of the most necessary books are provided for this collateral reading.

The books in the reading room, which is open at all times, include the latest edition of the Encyclopedia Britannica, other encyclopedias, Americana, International, Chambers, etc., Warner Library of the World's Best Literature, bound volumes of Harper's Magazine, numbers 1 to 103, and the revised edition of The Century Dictionary and Atlas. The periodicals in the reading room are as follows:

American Magazine, Literary Digest, Living Age, McClure's, Missionary Review, Nation, North American Review, Outlook, Popular Science, Saturday Even-

ing Post, Scientific American, Scientific American Supplement, Scientific Monthly, Scribner, Survey, Outing, New Republic, Journal of Political Economy, The Review, School Review, Yale Review, Elementary School Journal, Lutheran, American Lutheran Survey.

The number of books listed in the library to October 17, 1919 is 23,220. The number added since December 11, 1917 is 1,041.

A great need of the library is a fund of which the income might be devoted exclusively to the binding of magazines and the purchase of sets of bound volumes.

The following are kindly sent free:

Advocate of Peace, Commoner, Doylestown Daily Intelligencer, Northampton Democrat, American Economist. Our Dumb Animals, Reading Eagle, Locomotive, Lutheran, Lutheran Observer, Lutheran Woman's Work, Luther League Review, Der Missionsbote, Foreign Missionary, Sweet Charity, Bible Student and Teacher, Outlook of Missions, Young Folks, Christian Science Monitor.

## THE YOUNG MEN'S CHRISTIAN ASSOCIATION

The Young Men's Christian Association conducts many lines of religious work. Study groups in missions and kindred problems meet every week under the general supervision of a member of the faculty. There are occasional addresses by religious workers of national reputation, and weekly chapel talks by promi-

nent clergymen and laymen of Allentown and vicinity. Sunday School work is actively engaged in, and regular church attendance encouraged. An efficient employment bureau secures positions for students wishing to earn money on Saturdays and holidays. Members of the college Y. M. C. A. may use the large swimming-pool, the gymnasium, and the reading and game rooms of the city association. Religious literature is distributed free to all students.

This association stands definitely for a life governed by Christian principles; every effort is made to exert a wholesome guiding influence upon new students, and to inculcate in them ideals of true Christian manhood. The faculty commends heartily the work of the association.

## COMMON ROOM

A large room on the third floor of the Administration Building is equipped with comfortable furniture, a moving-picture machine, a piano, and a victrola, and maintained by the Women's Auxiliary of the college. This rest room is designed as a general gathering place for all students.

## ATHLETICS

The athletic equipment of the college comprises a gymnasium fitted with all apparatus necessary for class work, a football field, baseball diamond, quarter-mile cinder track, pits for pole-vaulting and jumping, and a group of tennis courts.

The football, basketball, and track teams have achieved unusual distinction in intercollegiate contests with colleges and universities in the Middle Atlantic States. Tennis tournaments are held every spring. There are also cross country and baseball teams. Interclass games are played at various times throughout the year, and prizes are awarded to the winning classes.

Every man who is physically fitted to compete in any of these sports is encouraged to try for a place on the varsity team. The college believes in having as many students as possible take part in athletic contests in order that the body as well as the mind may be trained.

## STUDENT PUBLICATIONS

The following publications are issued by the students:

*The Muhlenberg Weekly.* A weekly college paper devoted to local interests of the student body, and forming a record of passing events, athletic, social, and otherwise, including general activities among the alumni.

*The Ciarla.* An annual illustrated volume issued in June by the Junior Class, and presenting a summary of student life during the current scholastic year.

## STUDENT ORGANIZATIONS

### *Musical*

Professor Marks of the Department of Music is faculty director of all musical organizations.

*The Glee Club* makes regular concert tours in Pennsylvania, including in its itinerary every season Scranton, Hazelton, Philadelphia, Reading, Lancaster, Harrisburg, Lebanon, Allentown and many other cities. The Club sings annually to audiences of more than ten thousand.

*The Mandolin Club* accompanies the Glee Club on tour, and makes occasional concert tours of its own.

*The Band* plays at all important athletic contests, and takes part in various parades throughout the year.

### *Dramatic*

An active dramatic organization, *The Cue and Quill Club,* affords training in acting and in staging plays, and presents either a group of one-act plays, or a three or four-act comedy, during Commencement Week.

### *Fraternities*

Three fraternities, Alpha Tau Omega, Delta Theta, and Phi Kappa Tau, two national and one local have chapters and chapter houses at Muhlenberg College.

### *Public Speaking*

Muhlenberg College is a member of the Pennsylvania Intercollegiate Oratorical Union, other members of which are Swarthmore, Franklin and Marshall, Gettysburg, Ursinus and Lafayette. During the past ten years Muhlenberg College has won first prize three times and second prize five times. The Junior Oratorical Contest, held during Commencement Week, affords another opportunity for training in speaking be-

fore an audience. Students are encouraged to enter all these speaking contests.

## SITUATION

Muhlenberg College is situated in the rapidly growing western section of the city. The modern buildings are in the midst of a campus of seventy-two acres, upon a ridge, from which are obtained splendid views of the surrounding country. The conspicuous location of the college, amid beautiful natural surroundings, can hardly be surpassed by any educational institution.

## THE ADMINISTRATION BUILDING

This building occupies the highest part of the new college grounds, facing south, and is 190 feet long and 65 feet wide, three stories high, with a basement. It is built of a pink granolithic stone, with Indiana limestone trimmings, in the English Renaissance style of architecture. The facade shows a central tower, which is flanked with gables on each end, the intervening wall being topped off with dormer windows.

The building is of what is known as "slow-burning construction," with iron staircases, heated by steam and lighted with electricity, supplied from a central plant. Its appointments and furnishings are modern throughout.

The basement contains a gymnasium with bath and locker-rooms, a basketball room, bicycle and coat rooms, lunch room and Physical Director's room. The

first floor contains a reception room, offices for the President and Treasurer, the latter connecting with a fire-proof vault, chapel, and five lecture rooms.

The second floor contains the library and reading rooms, physical laboratories, and four lecture rooms.

The third floor contains the biological laboratory, the common room, German Lecture room, and rooms for "The Muhlenberg" and Press Club, and the museums of geology and botany.

## THE DORMITORIES

The general scheme of the dormitories is that of a rectangle, following a typical Oxford or Cambridge system. They are divided into sections accomodating from twelve to sixteen students each, and are entered from the quadrangle through separate doorways, each section having its own hall and staircase with rooms on either side. All the sections are supplied on each floor with steam heat, electric light, hot and cold water, shower baths, and toilet-rooms.

The main entrance to the dormitories is flanked with towers which contain, on the first floor, an office, a reception room, a janitor's room and a baggage room.

The front elevation of the principal dormitory is 183 feet long and three stories high. This building is called "Berks Hall," in honor of the Lutherans of Berks County, Pa., who undertook to raise $35,000 to pay for its erection. It accommodates seventy-five students.

Mrs. Anna Louisa Rhoads, of Reading, Pa., has erected an additional section along the eastern side of the rectangle as a memorial for her son, John Warren Rhoads.

Luther League Hall has been erected by the Luther Leagues of the Ministerium of Pennsylvania. This section of the Dormitory has begun the western side of the rectangle.

Three new sections of the dormitories were added in the fall of 1914.

## CHEMICAL LABORATORY

A completely equipped power-plant furnishes an ample supply of steam heat and electric light for all the buildings on the college grounds. In this building provision has been made for the chemical laboratory and dissection room, until the chemical laboratory can be housed in a building of its own.

## THE COMMONS

The Athletic Association has erected a beautiful, well-equipped and commodious commons, where all dormitory students are required to take their meals. The price of the board is $4.50 per week. No deductions from this price will be made except in cases where students are absent for one full week or more.

## RESIDENCES

Separate homes for the President and Treasurer are situated on the Campus. These houses are new brick

structures as nearly fireproof as possible and thoroughly modern in appointments.

## URGENT NEEDS OF THE COLLEGE

### ENDOWMENT

At this time when the oldest, the largest and the wealthiest colleges and universities in the country are pleading poverty and are asking millions of dollars for endowment, Muhlenberg College asks her alumni, friends and the public in general for such an increase in her endowment as will enable her to pay her professors a living wage in return for the loving loyalty and the sacrificing service which they have given her, and through her to Church and State, during the fifty years of her existence. Larger endowment for increased salaries is the first and the most crying need of the college.

### LIBRARY

Books are the tools of the student and the teacher. In order that there may be the proper expansion of courses in keeping with the scholarship of the times, a large collection of all the latest books in each department, so arranged and housed that the world's knowledge on any particular subject is easily accessible to student and teacher, is absolutely necessary. A commodious, well-appointed library building, together with a permanent fund for the purchase of new books, accordingly, is our second great need.

## SCIENCE BUILDING

The third great need is a Science Building. The work in all the departments of science is greatly inconvenienced, if not at times hampered, by the limited quarters of the laboratories, the recitation rooms and the museums, caused by lack of a separate building which should be used solely for the rapidly expanding courses in science.

## CHAPEL AND AUDITORIUM

Another pressing need of the college is a building which would be the social centre of the institution. In addition to the chapel and an auditorium for lectures and commencements such a building should furnish a home for all the student organizations and the college activities, such as the Y. M. C. A., the Glee Club, the Muhlenberg Weekly and all other regular interests of college life, thus relieving the cramped condition of the Administration Building and enabling each professor to have a permanent room of his own instead of traveling about and using the rooms of other teachers, as many are at present compelled to do.

## GYMNASIUM

To meet the ever-growing needs of the department of athletics, a department that has done so much to bring Muhlenberg College to the attention of the educational world and of the public in general, a comfortable, well-equipped gymnasium is urgently needed.

These are the most immediate needs of the college. It is most earnestly hoped that the friends of the institution, the Lutheran Church, and the public in general will appreciate these needs and will liberally provide the funds for the equipment so urgently needed because of the rapid increase of students and the ever-expanding activities of the institution. Men of means can erect no monument to their memory more worthy in purpose, more helpful in blessing, more lasting in honor, than will be a generous contribution to the endowment fund or the erection of one of these buildings.

## PRIZES

During the year the following prizes have been announced, competition for which is subject to the rules of the Faculty, and the assigning of which is in the hands of committees appointed for this purpose. The decision will be announced on Commencement Day. Friends of the institution are urged to increase the number of these prizes, especially for the lower classes.

*The Clayton K. Bernheim Honor Medal,* to be assigned to that member of the Senior Class having attained the highest average grade during the year, in all his studies. Presented by Oscar F. Bernheim, '92.

*The President's Senior Prize.* A prize of Ten Dollars to be awarded to that member of the Senior Class writing the best original essay in the department of philosophy. Subject for 1920: "The Influence of Evolution upon Philosophic Thought." Presented by President J. A. W. Haas, D.D., LL.D.

*The Clemmie L. Ulrich Oratorical Prize.* Twenty-five Dollars to that member of the Junior Class making the best speech in English, as to manner and matter, at the Junior Contest. Presented by bequest of Clemmie L. Ulrich, Annville, Pa.

*A Second Junior Oratorical Prize,* given by the class of 1908, to be awarded to the man making the second best speech in English.

*The President's Junior Prize.* A prize of Ten Dollars to be awarded to that member of the Junior Class presenting the best original essay in the department of English. Subject for 1920: "The Common Man in the Drama of Today." Presented by President J. A. W. Haas, L.D., LL. D.

*The Reuben D. Wenrich, M.D., Prize.* A prize of Ten Dollars to be awarded to that member of the Sophomore Class having attained the highest average grade in all his studies.

*The Reuben J. Butz Botanical Prize* of Ten Dollars given to that student who makes the best collection of local flora (including ferns). Open to all students of Botany.

*The Charles D. Boschen German Prize* of Ten Dollars presented to that member of the Sophomore class making the best examination in such special work as may be assigned in the German Department.

## DEGREES CONFERRED AT COMMENCEMENT

In June 1918, the following degrees were conferred:

*Doctor of Laws.*

Rev. William Wackernagel, Professor of Modern Languages and Literature, Muhlenberg College.

William H. Crawford, President of Allegheny College.

Elmer P. Kohler, '86, Professor, Harvard University.

W. A. Granville, President of Gettysburg College.

*Doctor of Literature.*

Albert T. Clay, Professor of Semitics, Yale University.

J. Duncan Spaeth, Professor of English, Princeton University.

*Doctor of Pedagogy.*

A. B. Meredith, Assistant Superintendent of Education, New Jersey.

C. C. Boyer, '85, Vice-President of Kutztown State Normal School.

*Doctor of Divinity.*

Gustav Andreen, President of Augustana College.

Ernst P. Pfatteicher, Reading.

L. Franklin Gruber, '98, Minneapolis.

Jeremiah J. Schindel, '96, Philadelphia.

John H. Waidelich, '86, Sellersville.

In June, 1919, these degrees were conferred:

*Doctor of Divinity.*

Elias A. Yehl, '85, Rittersville.

I. Chantry Hoffman, Philadelphia.

Samuel G. Trexler, '96, Buffalo.

A. B. MacIntosh, Norristown.

M. Luther Zweizig, '77, Reading.

Franklin K. Huntzinger, Reading.

*Master of Science.*

Guerney F. Afflerbach, Muhlenberg College.

*Master of Music.*

Mrs. Ada Merkley, Elizabeth College.

## STUDENT CLASS HONORS.

### In 1918.

*Senior Class*: Luther W. Abele, Paul S. Christ, Joseph S. Kleckner, David F. Longacre, Joseph S. Sussman. Honorable Mention: Fred J. Fiedler, Clarence H. Swavely.

*Junior Class*: Luther A. Krouse, William M. Muthardt, Russell D. Snyder, Earle H. Weinsheimer.

*Sophomores*: Luther J. Deck, Earl S. Erb, Richard R. Gates, Raymond A. Green, Freeland L. Hemmig, Philip S. Miller.

*Freshmen*: Amos A. Eettinger, Arthur H. Freitag, Arlan L. Kline, Joseph E. Laury, Reuben F. Longacre.

IN 1919.

*Senior Class*: Luther A. Krouse, Russell D. Snyder, Earle H. Weinsheimer.

*Junior Class*: Luther J. Deck, Earl S. Erb, Richard R. Gates, Raymond A. Green, Otto F. Nolde.

*Sophomores*: Amos A. Ettinger, Arlan L. Kline, Joseph E. Laury, Reuben F. Longacre.

*Freshmen*: Waldemar Fedko, Alfred Hettinger, Harold Knauss, Dean C. Seitz, Russell W. Stine.

# THE ADMISTRATION OF THE COLLEGE.

## GOVERNMENT

In the administration of the government of the College, no unnecessary or arbitrary regulations are established, but only such laws are insisted upon as are necessary for the common life of Christian gentlemen. No one whose influence is against the general order of the College can expect to continue in attendance.

Whenever dismissal is necessitated as the due punishment corresponding to the offense, all advantages are forfeited. Severer discipline is however avoided, if it be in any way possible.

The Student Council, chosen by the student body, maintains good order in the college and in the dormitories, enforces proper conduct among the students, and disciplines any student who refuses to obey regulations.

## REGISTRATION

On the first day of the fall term, after the applicant for admission has appeared before the Entrance Com-

mittee, he shall report in person at the office of the Treasurer before 1 p. m., and register his full name and home address, as well as the course he expects to take. A registration fee of $5.00 will be required in advance.

## ELECTIVES

On or before June 1st of each year, every student shall hand to the Dean a list of the subjects that he elects for the following year, which subjects thus become a part of his regular work. All such elections are subject to the approval of the Faculty.

## EXAMINATIONS

All the classes are examined twice a year, and the results made to count as a proper factor in the class standing.

## TERM REPORTS

Reports of standing in class, conduct, attendance, and the like, are sent to parents or guardians after each examination; and if necessary, special correspondence is had in the intervals. In the case of students who fall below grade, monthly reports are sent to parents or guardians.

## SCHOLARSHIPS

Any individual or congregation contributing $2,000 to the College will receive a permanent scholarship, the income of which will be credited to the tuition of the holder of the scholarship. The contributor, his as-

signs, etc. have the right of naming the holder of the scholarship.

The following is a list of donors of scholarships:

Hon. S. A. Bridges, Allentown, Pa.
James K. Mosser, Allentown, Pa.
Andrew S. Keck, Allentown, Pa.
Thomas Keck, New York, N. Y.
Horatio Trexler, Reading, Pa.
William Saeger, Allentown, Pa.
Alfred G. Saeger, Allentown, Pa.
Charles Burkhalter, New York, N. Y.
Amos W. Potteiger, Reading, Pa.
Mrs. Sarah Miller, Allentown, Pa.
A. Stanley Ulrich, Esq., Lebanon, Pa., and Rev. Aaron Finfrock, Reading, Pa.
A. S. Shimer, Easton, Pa.
John Wagner, Hellertown, Pa.
William Arnold, Reading, Pa.
Samuel H. Kutz, Reading, Pa.
Robert H. Sayre, South Bethlehem, Pa.
Henry Stine, Fogelsville, Pa.
Jacob Fegely, Pottstown, Pa.
George H. Reinoehl, Lebanon, Pa.
Edward S. and Sarah Wertz, Reading, Pa.
Charles A. and Annie D. T. FonDersmith, Lancaster, Pa.
John E. Lentz, Allentown, Pa.
Mrs. Caroline Freudenberger, Tamaqua, Pa.
Reuben D. Wenrich, M.D., Wernersville, Pa. This Scholarship has been increased, by the donor, to $1,500.

*Rev. Dr. John W. and Mary Sener Rumple Scholarship,* endowed by the Rev. John W. Rumple. Value, the interest of $1,500.

*St. John's Evangelical Lutheran Church,* Allentown, Pa.

*Trinity Evangelical Lutheran Church,* Reading, Pa., (two owned by the Congregation, and one of $1,400 endowed by the Sunday-school, in memory of Mrs. Sidley).

*St. James' Evangelical Lutheran Church,* of Reading, Pa., (two owned by the Congregation).

*Emanuel Evangelical Lnutheran Church,* of Pottstown, Pa.

St. John's English Reformed Church, of Allentown, owns the *Frank Erdman Cooper Scholarship,* given to it by C. W. Cooper, Esq., in memory of his son.

The *Henry S. Neff, M.D., Memorial Scholarship,* of St. John's Ev. Lutheran Church, of Philadelphia, Pa., was endowed by George Rugan Neff in memory of his son.

The *Frank Rugan Neff Memorial Scholarship,* of St. John's Ev. Lutheran Church, of Philadelphia, Pa., was endowed by Julietta S. Neff in memory of her son.

The *Henry Melchior Muhlenberg Scholarship* was endowed by Mrs. Mary A. Rogers and Mrs. E. M. Bailey and her son James Muhlenberg Bailey, of New York, in honor of their ancestor, the Patriarch of the Lutheran Church in this country.

The *Henry and Anna Mary Romig Memorial Scholarship* was endowed by Mrs. Isaac Fegely, of Pottstown, Pa., in honor of her parents.

The *Allentown High School Scholarship* is vested in the Public School Board of Control, of Allentown, and is open annually to competition on the part of graduates of the High School.

The *Clemmie L. Ulrich Scholarship* was left by bequest for the use of the Ev. Lutheran Ministerium of Pennsylvania.

*Charles Roeller Himmelwright Memorial Scholarship* of St. John's Evangelical Lutheran Church, of Quakertown, Pa., endowed by Mrs. Susan Himmelwright in memory of her husband.

*The Frank R. Nusbaum Scholarship,* of Trinity Evangelical Lutheran Church, Lehighton, Pa., endowed by Mr. Frank R. Nusbaum. Value, the interest of $1,400.

*The W. J. Andres Scholarships.* Four scholarships, each the interest on $1,500, given by the bequest of Rev. W. J. Andres, especially for students preparing for the ministry.

The *Stephen A. Repass Memorial Scholarship* of St. John's Lutheran Church, Allentown, Pa. Value, the interest of $1,500.

*The Lizzie M. George Scholarship,* given by Mrs. Lizzie M. George, of Annville, Pa. Value, the interest of $1 500.00.

*The Aaron B. Walp Scholarship,* given by Mr. Aaron B. Walp, of Trinity Church, Quakertown, Pa. Value, the interest of $1,500.00.

*The Martin Luther Trexler Scholarship,* given by Rev. D. D. Trexler in memory of his son Martin Luther Trexler. Value, the interest of $1,500.

*The Reber Memorial Scholarship,* in memory of Henry Reber, Emma M. Reber and Catherine E. Reber, Auburn, Pa. Value, the interest of $1,000.00

*The Martin Scholarship.* Founded with a donation of $1,500.00 by Ada Amelia Martin, of Utica, N. Y., in memory of her parents, Frederick and Maria Carolina Lueke Martin. Value, $75.00 a year.

*The Kostenbader Memorial Scholarship.* Founded by the children of Mr. and Mrs. Herman Kostenbader, Catasauqua, Pa., with a gift of $1,500.00 in memory of their parents. Value, $75.00 a year.

*The Theodore L. Seip Scholarship.* Founded by the bequest of Mrs. Theodore L. Seip, deceased, wife of the third President of Muhlenberg College. Value, the interest of $1,500.00.

*The Mary E. Lovell Minnich Scholarship.* Given by Rev. M. Reed Minnich, of the Church of the Incarnation, Philadelphia, Pa. Value, the interest of $900.00.

*The Rev. S. A. Bridges Stopp Scholarship.* Founded by the bequest of Rev. S. A. Bridges Stopp, deceased, for the education of a student for the Lutheran ministry. Value, the interest of $2,000.

*The William A. Freihofer Scholarship.* By gift of Mr. Charles Freihofer, of Philadelphia, in memory of his son, William A. Freihofer, of the class of 1915, who died in the service of his country. Toward the expenses of two students for the Lutheran ministry. Value, the interest of $11,000.

*The E. W. Miller Scholarship.* Given by Mr. E. W. Miller, of Lebanon, Pa. For a student for the Lutheran ministry. Value, interest of $1,000.

It is hoped that others will follow these examples, and take individual, memorial, or congregational scholarships, as thereby the owner of such a scholarship, apart from educating his own family, will aid worthy and talented but poor young men in securing an education that may fit them for eminent usefulness, and

the congregations may have in perpetual training those of their sons that seek the work of the Gospel ministry.

## HIGH SCHOOL SCHOLARSHIPS

The Board of Trustees has also granted a scholarship, representing an annual credit of $50 for tuition, to each of the following High Schools:

The Reading High School
The Lebanon High School
The Easton High School
The Catasauqua High School
The Hazleton High School
The Kutztown Normal School
Millersville Normal School
Moravian Parochial School
Perkiomen Seminary, Pennsburg, Pa.
Bethlehem Preparatory School

## EXPENSES FOR THE COLLEGIATE YEAR

### IN THE ADMINISTRATION BUILDING

The expenses in the Administration Building will be $100.00, which includes tuition, the use of the College Library, Reading Room, furnished and supplied with current literature by the College, Gymnasium, light, heat, and service. A deposit of $1.00 will be required for a locker key in the gymnasium, which will be refunded when the key is returned.

A registration Fee of $5.00 will be collected from each student when entering college for the first time.

A graduation fee will be collected from seniors during the last semester in college.

A student activity fee of $10.00, including an athletic fee of $7.50, will be collected annually from each student for the Athletic Association.

Board can be secured at $4.50 per week at the Commons.

The charges for material and the use of instruments in the Biology courses average $10.00 to $15.00 a year.

All Chemistry students, in all courses, are required to pay a fee of $5.00 and to deposit with the Treasurer $5.00 to cover possible breakages.

For special courses, embracing from one to three subjects of study, the charges will be $25.00 a year.

The scholastic year is divided into two terms for the payment of these charges, which are divided into two equal halves, namely, from September to the end of January, and from the first of February to Commencement. *The College charges of each term must be paid in advance.*

The members of the Senior Class, at the beginning of the second term, pay to the Treasurer an extra fee of five dollars, which will be refunded in case of failure to graduate.

### IN THE DORMITORIES

The room-rent in the Dormitories includes electric light, steam heat, hot and cold water, bath, and service. The rental is always for the whole room or suite, and

for the time extending from Monday before the opening of College in September until Saturday after Commencement in June. In case of a double room or double suite, the rent per tenant is one-half the given rent. Students staying on the premises during the day and returning to their homes at night will be assigned either to a double room or to a double suite after all the resident students have been located, and charged one-fourth the rent.

All students must furnish their own rooms, and only iron bedsteads with all iron springs approved by the College are allowed.

The rooms are divided into four classes:

1. Single rooms for one tenant only, where the rent is $55.00.

2. Single suites, a study, and a bedroom, for one tenant only, where the rent is $87.50 on the first and second floors, and $67.50 on the third floor.

3. Double rooms, one large room for two tenants, where the rent is $90.00 on the first and second floors, and 85.00 on the third floor.

4. Double suites, a study, and two bedrooms, where the rent is $140.00 and $150.00 on the first and second floors, and $130.00 on the third floor.

5. Triple suites, a large study and three bedrooms on first and second floors, where the rent is $225.00 equally divided between each occupant.

APPROXIMATE YEARLY EXPENSES

| | |
|---|---|
| Tuition | $100.00 |
| Rent (average) | 65.00 |
| Student Activity Fee | 10.00 |

Board, (about) ..... 150.00

Total .....$325.00

Registration fee and other minor fees are listed on Page 70.

## ENDOWMENTS, BEQUESTS AND DEVISES

Higher education, in our country, rests largely upon a charitable basis. No institution offering a liberal education can be maintained by the moderate charges made for tuition. The increasing breadth given to such higher education, and the more exalted standard of architectural effect employed in collegiate buildings, increase enormously the resulting financial strain. No such institution can therefore keep abreast of this ever rising standard of the times without the steady increase of its endowment funds. Muhlenberg College has, in the past, been the recipient of a number of very generous gifts and endowments. But, for the reasons just assigned, it must most earnestly urge its friends and graduates to aid in furthering its resources, endowing new professorial chairs, founding scholarships, providing funds for the aid of worthy but indigent students, and the other constantly pressing needs of the institution. Attention is also called to the eminent propriety of making bequests to advance the prosperity and widen the usefulness of our institution. As it is important that testamentary papers should be carefully drawn and regularly executed, and our corporation name be written accurately, we append the following forms, respectively for personal property

and real estate, indicating whether the bequest is for endowment or the general purposes of the College:

*I give and bequeath to "Muhlenberg College," in Allentown, Pennsylvania, and its successors and assigns, forever, the sum of Dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the uses and purposes of said College.*

*I give and bequeath a certain lot, situated (here describe) to "Muhlenberg College," in Allentown, Pennsylvania, and to its successors and assigns, forever, for the uses and purposes of said College, according to the provisions of its charter.*

## THE ALUMNI ASSOCIATION OF MUHLENBERG COLLEGE

PRESIDENT: Prof. George T. Ettinger, Ph.D., '80.

VICE-PRESIDENTS: Rev. J. J. Schindel, '96, Philadelphia, Pa., Rev. W. O. Fegly, '90 Trappe, Pa.

CORRESPONDING SECRETARY AND TREASURER: Ralph H. Schatz, Esq., '08, Allentown, Pa.

RECORDING SECRETARY: Professor J. A. Bauman, Ph.D., '73, Allentown, Pa.

BOARD OF MANAGERS: Willard D. Kline, M. D., '97; Dr. Howard S. Seip, '85, and Prof. Robert R. Fritsch, '00.

The object of this Association is to cultivate friendly relations among the alumni and to promote the interests of Muhlenberg College.

Any graduate of Muhlenberg College may become a member by paying a membership fee of 50 cents, and $1 annually thereafter.

It is urgently requested that as many of the alumni as possible join the Association, and thus assist in advancing the obects for which it has been established.

The annual meeting is held on Wednesday forenoon of Commencement week.

Further information may be had from the Corresponding Secretary.

## THE LIST OF ALUMNI

The list of alumni will not be printed in the catalog every year, as was formerly the custom. In place of this, information will be given about individual alumni or special groups.

## CLASS GIFTS

Several of the recently graduated classes have made gifts to their Alma Mater upon graduation or at some reunion. It is hoped that this example will be followed by others. The gifts and givers are these:

Class of 1899. In the year 1914 this class installed and presented to their Alma Mater a large four-dial clock for the tower of the Administration building.

Class of 1900. This class has presented many books to the library.

Class of 1908. This Class has annually given the second Junior Oratorical Prize of $10.00.

Class of 1913. In 1913 this class erected and presented as a parting gift to their Alma Mater a 100-foot Oregon pine flag pole, and a large American flag for same.

Class of 1914. As a parting gift to their Alma Mater, this class placed in the tower of the Administration Building a large bell metal tube and the striking attachments to the clock.

Class of 1915. A majority of the members of this class as a parting gift to the College insured their lives in favor of their Alma Mater.

## EXTENSION COURSES

COLLEGE YEAR—1919-1920.
September 27-May 29
SUMMER SCHOOL—1920.
June 27-August 6

The purpose of the Department of Education is to contribute in a professional way to the preparation of superior teachers and other educational leaders. The curriculum is based upon the assumption that teachers should have a broad, liberal education; that this training should be supplemented by professional education which gives a knowledge of the pupils to be taught, the problems to be met, the new meanings of the subjects of instruction, and the fundamental principles of the educative process; and finally, that they should be masters of the special subjects which they are teaching or expect to teach.

The extension courses offered by the faculty of Muhlenberg during the college year and at the summer session are designed primarily for the following classes of men and women:

## ADMISSION

All courses are open to both men and women. If the student desires college credit for the courses completed he must have satisfied the college entrance requirements before entering upon his work.

## REGISTRATION

The formal opening of the Teacher's College will be held in the college chapel on September 27th, at 10:00 a. m. A special address will be delivered by President Haas and Doctor Wright will outline the work for the year.

Students may register at the close of the opening exercises. The class work will start on Saturday morning, October 4th and the evenings of the following week.

## TUITION FEES

Matriculation fee for those who desire college credit (to be paid but once), $5.00.

For each lecture or recitation course of five hours a week during the summer session, $10.00.

For each lecture or recitation course one hour a week during the college year, $10.00.

For each laboratory course of 10 hours a week dur-

ing the summer or 2 hours per week during the college year, $10.00.

Laboratory fees to be arranged by each department.

## ACADEMIC CREDIT

The requirement for the Bachelor's degree in the extension courses of the college is the completion of 60 "units" of academic work. The "unit" of college credit consists of 30 recitation or lecture periods of one hour each, or of 30 laboratory periods of two hours each.

College credit is granted for all courses given by the regular college faculty.

## ATTENDANCE

No student who has not attended eighty per cent of the regular work of the course, in addition to passing the required examination, can receive credit for such course.

## CERTIFICATES

Students, who register without desiring college credit, are granted certificates of proficiency on the successful completion of any course.

This certificate is accepted by many superintendents in place of the examination required for teachers' certificates. It has been officially recognized by the various State and City Departments of Education, for all courses credited towards the Bachelor's degree.

The courses given by the Department of Education broadly prepare students to meet the professional re-

quirements for teachers' certificates in any city or State.

## LIBRARY

The college library is open to all students in the extension courses. A large list of new books on education, history, philosophy, and sociology have been added during the year.

The reading room, with a large list of daily papers, magazines, and periodicals, will be open during the summer session.

## SUMMER SCHOOL 1920

The regular summer session of the college will open June 28 and continues for six weeks. The State examination for the permanent certificate will be held at the close of the session.

The work is divided into three parts: First, regular college courses; second, special courses for new teachers; third, review courses for the permanent certificate examination.

## TEACHER-TRAINING COURSES

The following fundamental topics are included and given careful consideration in each course designed to prepare students for service in the public schools:

1. The aim and object to be attained in a high school course in the subject.

2. A general survey of the subject matter included in any course, as set forth by the college entrance requirements, and presented from the high school point of view.

3. A comparative and critical study of the different methods to be used in presenting the subject from the high school point of view.

4. A comparative and critical study of the text books available in the subject and of how to use them.

5. The are of asking questions and the preparation of questions for written tests.

6. Books of reference.

7. Equipment and illustrative material, such as desks, tables, apparatus, lantern slides, a list of firms supplying such material.

8. A study of educational tests and scales bearing upon the subject.

In addition to the regular college courses the following courses will be offered at the summer session, on Saturday, and at other convenient hours. Teachers wishing to do special work in any course not announced may be able to make the necessary arrangements. Only courses not described in the regular college catalog are described in the following list:

DEPARTMENT OF LATIN *Dean Ettinger*

1. Latin, elementary course.
2. Latin, Cicero De Amicitia and De Senectute.
3. Latin, Livy.
4. Latin, Horace.

DEPARTMENT OF GREEK *Professor Horn*

1. Beginner's Greek.
2. Greek, Xenophon's Anabasis.
3. Greek, Iliad.
4. Methods of Teaching Greek and Latin. The aim of this course is to give a practical treatment of the teaching of these languages from the secondary point of view. Special atten-

tion given to the selection of texts, noun and verb constructions, pronunciation.

5. Latin and Greek Literature. An opportunity to become acquainted with the ancient masterpieces in English translations.

DEPARTMENT OF BIOLOGY *Professor Bailey*

1. Zoology. A first course in the study of animal life.
2. Botany. A first course, comprising the principles and methods of teaching botany in the public school.
3. Biology. Special courses for college credit.
4. Agriculture. The course in agriculture is primarily designed to bring the schools in closer touch with the daily life of the community. It will deal with the prpoagation, improvement, and pruning of plants, the principles of feeding farm animals; the enemies of plants; etc. The work will be practical and much of it will be conducted on the college farm. It will fit any teacher to give practical, modern, and definite agricultural instruction in public schools of any kind.
5. Physiology and Hygiene. This course consists of a series of lectures and studies on the personal hygiene of school children; care of the teeth, eyes, nose, throat, ears, diet, exercise, effects of stimulants and narcotics; the recognition of contagious diseases and first aid in emergencies. Thursday 7:00-8:00.
6. The Teaching of Geology and Physical Geography. This course emphasizes the important essentials of these subjects and their relation to human activity. Special attention will be given to the physical features of Eastern Pennslyvania; the laboratory notebook; the equipment of the laboratory. Lectures, class discussions and excursions. Thursday 8:00-9:00.

## DEPARTMENT OF PHYSICS AND CHEMISTRY

*Professor Fasig*
*Assistant Professor Afflerbach*

1. General Physics, with laboratory work. Saturday 9:00-10:00.
2. General Chemistry, with laboratory work. Saturday 10:00-12:00.
3. Analytical Chemistry. Saturday 10:00-1:00.
4. Methods of Teaching Physics and Chemistry. This course will consist of reports and discussions on the problems arising in the teaching of physics and chemistry; special attention is given to the equipment and management of the laboratory, and the preparation of notebooks.

## DEPARTMENT OF ENGLISH

*Professor Simpson*
*Professor Brown*

1. English Composition.
2. English Novel. Saturday 11:00-12:00.
3. History of Literature. Saturday 10:00-11:00.
4. American Poets.
5. Modern Essayists.
6. Public Speaking.
7. Social Ideals of Literature.
8. Picture Study. This course is planned to assist the teacher in the study and interpretation of pictures in the class room. Monday 7:00-8:00.
9. The Teaching of English in Secondary Schools. This course seeks to set forth a comperhensive treatment of the teaching of English in the secondary school. The content of the course is determined by the college entrance bulletin.

## DEPARTMENT OF HISTORY

1. American History. Lectures, library readings, and discussions with special emphasis on the period since 1789.

2. The Teaching of History and Civics. It is the purpose of this course to discuss the problems of teaching history in the secondary school and to consider some of the problems of the work in the elementary school. Attention will be given to the use of aids, including source books, atlases, charts, and illustrative material.
3. Economics.
4. Sociology.
5. General History.

## DEPARTMENT OF MATHEMATICS

*Professor Bauman*

1. Arithmetic.
2. Algebra.
3. Plane Geometry. These courses are planned for teachers preparing for examinations or to enter college.
4. The Teaching of Mathematics in Secondary Schools. The purpose of this course is to present the practical phases of teaching algebra and geometry. It will consider the value of these courses, their relation to life, of difficult topics.

## DEPARTMENT OF MODERN LANGUAGES

*Professor Horn*
*Professor Fritsch*
*Professor Brown*

1. French. Elementary course. Monday 8:00-9:00 or Saturday 9:00-10:00.
2. French. Advanced course. Thursday 7:00-8:00 or Saturday 10:00-11:00.
3. German. Elementary course.
4. German. Advanced texts.
5. German. Scientific.
6. Italion.
7. Spanish. The major portion of the work in these courses will be presented in the language studied. Thursday 8:00-9:00.

8. The Teaching of Modern Languages. This course will be conducted in English. It will deal with the presentation of the language, oral and aurol practice, choice of materials, and the nature of examinations.
9. French Conversation. A course of exxercises, in conversation, conducted as far as possible in French. Designed for students who need practice in hearing and speaking the language, and to aid teachers in securing facility in oral instruction. Monday 8:00-9:00 or Thursday 7:00-8:00.

## DEPARTMENT OF PHILOSOPHY AND PEDAGOGY

*Doctor Wright*

1. Logic. Saturday 9:00-10:00.
2. General Psychology.
3. Educational Psychology and Educational Measurements. Saturday 10:00-11:00.
4. General Principles of Educational Practice. This course seeks to set forth the fundamental principles of educational procedure. An attempt is made to interpret the meaning of education and to follow the principles derived from biology, sociology, and psychology. Textbook: Klapper's Principles or Educational Practice. Monday 7:00-8:00.
5. Special Methods in Arithmetic, Geography, and History.
6. Special Methods in English Composition and Reading. Saturday 9:00-10:00.
7. Aims and Methods of the Elementary School. This course is planned to meet the needs of the inexperienced teacher. Attention will be given to the content and methods of each subject in the elementary school, the organization of the class, group teaching, daily program of work, making of reports. Saturday 11:00-12:00.

Note—Teachers in the district schools and students who are inexperienced are adised to take courses 4 and 7.

8. Child Psychology. A special course in applied psychology for the teacher of the primary grades and for those parents who desire the ability to supervise, a little closes, the education of their children. Monday 8:00-9:00.
9. Commercial and Industrial Gejgraphy. Tuesday 8:00-9:00.
10. Supervised Study. A special study in the theory and practice of the plan. Tuesday 7:00-8:00.
11. Mechanical Drawing.

For further information address Isaac Miles Wright, Pd.D., 240 North St. Cloud St., Allentown, Penna. Bell telephone, 614J.

## UNDERGRADUATES.

### SENIORS

Acker, Paul S. ..... Allentown
Allabough, Harvey M. ..... Silverdale
Bachman, Russell S. ..... Allentown
Beasom, James P. ..... Manitoba, Canada
Bollman, Mark B. ..... Allentown
Caracciola, Francis C. ..... Mayfield
Corbiere, Anthony S. ..... Allentown
Deck, Luther J. ..... Hamburg
Erb, Earl S. ..... East Greenville
Gates, Richard R. ..... Lebanon
Gloss, Charles F. ..... Minersville
Green, Raymond A. ..... Lebanon
Hemmig, Freeland L. ..... Mohnton
Hill, W. Chester ..... Vandergrift
Klick, Luther B. ..... Pine Grove
Kline, Raymond A. ..... Lebanon
Knedler, Paul A. ..... East Texas

| | |
|---|---|
| Kleckner, H. Stanley | Allentown |
| Kohler, Edwin L. | Allentown |
| Nolde, Otto F. | Riverside, N. J. |
| Oberly, H. Sherman | Butler |
| Roblyer, J. Homer | Wellsboro |
| Schell, Herbert S. | Bernville |
| Schleicher, David J. | Catasauqua |
| Shupp, Floyd E. | Brodheadsville |
| Snyder, Harvey C. | Harleysville |
| Snyder, Warren P. | Catasauqua |
| Stauffer, Frederick H. | Zionsville |
| Van Zandt, William A. | Sellersville |
| Tyson, Hobart W. | Catawissa |

Seniors, 30.

## JUNIORS

| | |
|---|---|
| Anderson, Harold C. | West Rutland, Vt. |
| Barthold, Harold J. | Bethlehem |
| Bauer, John T. | Allentown |
| Bean, David | Perkasie |
| Beddow, William D. | Richmond Hill, |
| Bittner, Mark R. | Allentown |
| Bliem, Emil E. | Atlanta, Ga. |
| Bornman, Ralph H. | Alburtis |
| Butz, Franklin J. | Kutztown |
| Cressman, Jesse M. | Quakertown |
| Derr, Jennings B. | Alburtis |
| Edelman, Paul S. | Reading |
| Edwards, J. Russell | Orwigsburg |
| Ettinger, Amos A. | Allentown |
| Feldman, George | Allentown |
| Freitag, Arthur H. | Brooklyn, N. Y. |
| Hartman, Roger W. | Allentown |
| Heim, Paul H. | Orwigsburg |
| Hoffman, Roy H. | Oley |
| Kistler, Daniel D. | Coopersburg |
| Kline, Arlan L. | Brooklyn, N. Y. |
| Koch, G. Herbert | Allentown |
| Kroninger, Victor A. | Emaus |
| Laury, Joseph E. | Bethlehem |
| Lichty, Amon, Jr., | Pennsburg |

LONGAKER, REUBEN F. ..... Slatington
LYNCH, PAUL L. ..... Kutztown
MILLER, T. KENNETH ..... Irwin
MORGAN, JAMES G. ..... Tower City
MOYER, FLOYD H. ..... Palmerton
MURTAGH, HUGH J. ..... Philadelphia
PHILLIPS, H. STANLEY ..... Mohrsville
RONGE, PAUL R. ..... Danville
SAXE, VICTOR A. ..... Kunkletown
SCHAERTEL, CLARENCE L. ..... Buffalo, N. Y.
SCHANTZ, LINN H. ..... Macungie
SHAFER, H. ALBERT ..... Kresgeville
SHANE, WILLIAM G. ..... Allentown
SHANKWEILER, JOHN V. ..... Topton
SHANKWEILER, RAYMOND G. ..... Allentown
SHELLY, PAUL K. ..... Quakertown
SPENCER, RAYMOND A. ..... Andover, N. J.
STROUP, MILES G. ..... Allentown
TALMAGE, ARTHUR V. ..... Newton, N. J.
TRACH, THOMAS ..... Kresgeville
TREXLER, MARK K. ..... Topton
WEABER, WILLIAM F. ..... Allentown
WEHR, ROWLAND ..... Allentown
WILLS, WILLIAM ..... Brooklyn, N. Y.
WILSON, WILLIAM H. ..... Mechanicsburg
WOHLSEN, PAUL T. ..... Lancaster
ZIEGLER, RAVEN H. ..... Macungie
ZWEIER, THEODORE W. ..... Sunbury
ZWOYER, HARRY R. ..... Allentown

Juniors, 54.

## SOPHOMORES

BEARY, PAUL H. ..... Allentown
BENZE, W. THEODORE ..... Philadelphia
BERGER, WALTER S. ..... Bernville
BJERKOE, GEORGE O. ..... Brooklyn, N. Y.
BLEILER, EDGAR D. ..... Kutztown
BUTZ, SAMUEL D. ..... Kutztown
DILLMAN, WILLIS L. ..... Philadelphia
EISENHARD, H. EDWIN ..... Cementon
EMERICH, LANDO ..... Auburn
FEDKO, WALDEMAR F. ..... Northampton

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|---|---|
| Fetherolf, Richmond D. | Jacksonville |
| Finck, Elmer F. | New Market, Va. |
| Fry, Harold C. | Ephrata |
| Gebert, Herbert G. | Tamaqua |
| Gerhart, Luther F. | Philadelphia |
| Gresh, Ralph R. | Obelisk |
| Greth, Morris S. | Hamburg |
| Hettinger, Alfred C. | Allentown |
| Hower, Frank B. | Danielsville |
| Huf, Gustav | Philadelphia |
| Jacobs, Harold S. | Irwin |
| Kehrli, Andrew C. | Scranton |
| Kirchner, Edwin L. | Kingston, N. Y. |
| Kistler, Myron M. | Coopersburg |
| Knauss, Harold P. | Allentown |
| Kline, Jesse G. | Northampton |
| Lantz, Thomas W. | Shiremanstown |
| Lazarus, Frank W. | Bethlehem |
| Merkle, Robert G. | Allentown |
| Martz, Jacob G. | Macungie |
| Mickley, Arthur H. | Allentown |
| Nagle, Paul A. | Allentown |
| Oberly, Robert S. | Butler |
| Orr, Paul R. | Phillipsburg, N. J. |
| Ramer, Paul W. | Allentown |
| Reinartz, Charles H. | East Liverpool, O. |
| Rex, Leon O. | Slatington |
| Ritter, Clarence C. | Allentown |
| Robbins, Harvey E. | Mt. Carmel |
| Roh, George | Chicago, Ill. |
| Schaeffer, Harold F. | Allentown |
| Schatz, William C. | Allentown |
| Seip, Theodore A. | Allentown |
| Sellers, A. Maynard | Bethlehem |
| Sewell, Robert R. | Allentown |
| Sharkey, Harry E. | Delano |
| Sherman, Albert B. | Luray, Va. |
| Simmons, John S. | Scranton |
| Snyder, Raymond | Allentown |
| Sowers, George M. | Auburn |
| Spieker, Paul F. | Allentown |
| Steimle, Douglas B. | New York City |
| Stine, Russell W. | Allentown |

| | |
|---|---|
| LUTZ, RICHARD C. | Philadelphia |
| MANN, HORACE S. | Bangor |
| McKEE, ELMER E. | Allentown |
| McLAUGHLIN, WALLACE H. | Philadelphia |
| MILLER, JOHN G. | New Market, Va. |
| MILLER, RAYMOND C. | Allentown |
| MILLER, ROBERT K. | Allentown |
| MILLS, CHRISTIAN E. | Brodheadsville |
| MOHR, EUGENE H. | Alburtis |
| MOSSER, WILLIAM F. | Allentown |
| MUSSELMAN, WILLIS F. | Perkasie |
| PARK, RUSSELL W. | Easton |
| PAUL, HUGO B. | Weatherly |
| REES, GOMER S. | Lehighton |
| RHODE, PAUL H. | Allentown |
| RITTER, PAUL O. | Allentown |
| ROTH, ALLEN L. | Slatington |
| RUPP, GEORGE A. | Allentown |
| SANDERS, IVAN C. | Allentown |
| SCHEFFY, CLARENCE G. | Nazareth |
| SCHMERKER, FREDERICK | Allentown |
| SCHMOYER, STERLING C. | Wescosville |
| SERFAS, PAUL S. V. | Effort |
| SHULER, HORACE T. | East Texas |
| SMYTHE, GEORGE W. | Norristown |
| SOTTER, HAROLD J. | Pottstown |
| STAUFFER, ROBERT L. | Allentown |
| STAUFFER, ROBERT G. | Emaus |
| STROUP, J. RUSSELL | Allentown |
| STRUNK, LEROY | Quakertown |
| SUSSMAN, HERMAN | Allentown |
| TAGGART, AUSTIN L. | Norristown |
| THOMAS, IRVING | Wilkes-Barre |
| TRANSUE, WILLIAM J. | Catasauqua |
| TROUT, JOHN A. | Pottstown |
| WAGNER, CALIFORNIA | Strausstown |
| WEAVER, FLOYD H. | Allentown |
| WEAVER, PAUL F. | Perkasie |
| WEILER, FREDERICK W. | Allentown |
| WESSNER, DALTON F. | Allentown |
| WETZLER, ADOLPH H. | Schneckskville |
| WOODLING, ODELL | Scranton |

TREXLER, CLIFFORD H. ..... Allentown
WARNER, HAROLD R. ..... Lansdale
WERKHEISER, RUSSELL A. ..... Easton
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## FRESHMEN

ALDERFER, HENRY F. ..... Souderton
ARMBRUSTER, RUSSELL ..... Scranton
BAKER, JOHN A. ..... Allentown
BALMER, GEORGE B. ..... Reading
BASTIAN, WALTER S. ..... Allentown
BENNYHOFF, LUTHER ..... East Mauch Chunk
BOLICH, CHARLES M. ..... Allentown
BRODELL, CHARLES E. ..... Stroudsburg
BRYAN, DONALD P. ..... Lehighton
CASSONE, CARL A. ..... Allentown
CHERRY, LLOYD R. ..... Phillipsburg, N. J.
CHERNIAK, SYLVESTER ..... Bethlehem
CLAUSER, JAMES T. ..... Catasauqua
CLEMMER, STANLEY B. ..... Allentown
CROWLEY, JOSEPH G. ..... Steelton
DEATERLY, PAUL H. ..... Quakertown
DEERY, EDWARD B. ..... Chester Springs
DIEFENDERFER, BRIGHTON C. ..... Allentown
DILLMAN, RAYMOND B. ..... Lititz
DOLAN, HENRY S. ..... Topton
ENGLER, WILLIAM W. ..... Catasauqua
ERB, ALBERT K. ..... Allentown
FRITZ, IRA S. ..... Lancaster
HALLMAN, LESTER C. ..... Souderton
HASSINGER, J. KENT ..... Elizabethville
HEISSLER, J. ROLAND ..... Reading
HILDEBRAND, PAUL H. ..... Brooklyn, N. Y.
JUDD, J. ROBERT ..... Bethlehem
KNAUSS, CALVIN A. ..... Allentown
KOCH, J. WALTER ..... Allentown
KRAMER, R. ELMER ..... Perkasie
KREIDER, HARRY J. ..... Philadelphia
LANGKAMMER, ARTHUR C. ..... Lehighton
LEH, RUSSELL W. ..... Egypt
LEWIS, HOWARD H. ..... Norristown
LOWRIGHT, WALLACE J. ..... Center Valley

ZARTMAN, IRA F. ..... Lititz

Freshmen, 79.

## TEACHERS' EXTENSION COURSE.

ALBRIGHT, W. H. ..... Blooming Glen
ABERNETHY, R. R. ..... Catasauqua
ANDREWS, CLARA ..... Allentown
ANGLE, LOUISE ..... Allentown
APPLE, KATHRYN ..... Hellertown
ARNER, HANNAH ..... Allentown
BACHMAN, JENNIE ..... Allentown
BACHMAN, MINNIE C. ..... Allentown
BALLIET, ESTELLA ..... Allentown
BAUMAN, HARVEY ..... Milford Square
BAUMAN, I. W. ..... Allentown
BEARY, JOYCE ..... Allentown
BEARY, MARGARET ..... Allentown
BEATTY, ETHEL ..... Emaus
BECHEL, MARION ..... Allentown
BEERS, STANLEY ..... Walnutport
BENNER, W. M. ..... Telford
BENNINGER, ALMA ..... Allentown
BERGEY, PAUL ..... Allentown
BERG, MAZIE ..... Northampton
BERKEMEYER, RUTH ..... Allentown
BERNHARD, HANNAH ..... Allentown
BEST, LEROY ..... Neffs
BICKEL, PAUL ..... Allentown
BITTENBINDER, JENNIE ..... Allentown
BLEIM, E. C. ..... Atlanta, Ga.
BLUMER, EMILY ..... Allentown
BLUMER, LUCY ..... Allentown
BREINIG, CLARISSA ..... Allentown
BROBST, CHARLES ..... Allentown
BROWN, S. H. ..... Centralia
BUEHLER, MARION ..... Allentown
BUSS, EMMALINE ..... Allentown
BUSSE, LAURA ..... Allentown
BUTZ, N. A. ..... Allentown
CARACCIOLO, ANGELO ..... Mayfield
CARACCIOLO, FRANCIS ..... Mayfield

| | |
|---|---|
| Carrol, Harriet | Easton |
| Carrol, John H. | Easton |
| Charles, J. Otis | Emaus |
| Clark, Naomi | Bethlehem |
| Clauss, H. D. | New Ringold |
| Cole, Florence | Allentown |
| Costenbader, E. B. | Slatington |
| Costenbader, H. L. | Slatington |
| Cressman, W. O. | Allentown |
| Crooks, Adena | Allentown |
| Cunningham, Margaret | Allentown |
| David, B. B. | Lehighton |
| Deck, L. J. | Hamburg |
| Deeths, Kathryn | Allentown |
| Dengler, C. F. | Shickshinny |
| Derr, Jennings | Alburtis |
| DeRone, Maude | Allentown |
| Dew, J. Harry | Easton |
| Doherty, Bridget | Allentown |
| Dotterer, Jessie | Quakertown |
| Downs, Mary | Catasauqua |
| Driefoos, Hattie | Allentown |
| Drumm, C. E. | Wilkes-Barre |
| Dunn, M. S. | Allentown |
| Edelman, Paul | Reading |
| Edwards, J. R. | Orwigsburg |
| Eisenhard, C. W. | Mountainville |
| Eisenhard, J. L. | Cementon |
| Englert, Helen | Allentown |
| Erdman, Ella | Allentown |
| Erlenmeyer, Mrs. Seveilla | Quakertown |
| Fedko, W. F. | Northampton |
| Fellman, Mary | Quakertown |
| Fetherolf, Martin | Allentown |
| Feyrer, Anna | Allentown |
| Findlay, Laurie | Alburtis |
| Folk, Maggie | Allentown |
| Foreman, Anna | Allentown |
| Forstler, Mae | Allentown |
| Frankenfield, Carrie | Allentown |
| Frantz, LeRoy | Effort |
| Fry, Harold | Ephrata |
| Fry, Homer | Treichlers |

| | |
|---|---|
| GALLAGHER, HUGH E. | Allentown |
| GAYMAN, PAUL | Easton |
| GEHMAN, MINERVA | Quakertown |
| GIRVIN, EDNA | Allentown |
| GRAEFF, GEORGE | Allentown |
| GREENE, ELLA | Perkasie |
| GRIFFITH, SALLIE | Allentown |
| HAHN, NELLIE | Allentown |
| HALLMAN, BLANCHE | Allentown |
| HAMM, D. W. | Allentown |
| HAMM, ELLA | Treichlers |
| HANLON, MARY | Allentown |
| HEBERLING, LUCY | Allentown |
| HEBERLING, MABEL | Allentown |
| HERBERT, GEORGE W. | Allentown |
| HEFFNER, ESTHER | Allentown |
| HEIL, DOROTHY | Allentown |
| HEILMAN, W. F. | Allentown |
| HEIN, BERTHA | Allentown |
| HELLER, ALLEN | Emaus |
| HELLER, HOMER | Allentown |
| HESS, JOSEPH | Waynesboro |
| HILKEN, ANANA | Allentown |
| HOLMAN, ANNA | Allentown |
| HOPPES, R. R. | Hellertown |
| HUNSBERGER, ARTHUR | Perkasie |
| IOBST, HELEN | Emaus |
| JONES, ANNA T. | Allentown |
| JORDAN, CARRIE | Allentown |
| KECK, ANDREW | Allentown |
| KECK, BETTY | Allentown |
| KEISER, PEARL | Milford Square |
| KELLER, EDWIN | Allentown |
| KEMMERER, AMELIA | Allentown |
| KERN, ANNA | Allentown |
| KERN, NELSON | Allentown |
| KERSCHNER, D. W. | Summit Hill |
| KILMER, CARRIE | Quakertown |
| KINDT, OLIVIA | Hellertown |
| KINSEY, FLORENCE | Allentown |
| KISTLER, ALFA P. | Allentown |
| KISTLER, ANNIE | Allentown |
| KISTLER, LUCY | Allentown |

KLEIN, MARGARET ..... Allentown
KLICK, MARVIN ..... Allentown
KLINE, FLORENCE ..... Allentown
KLINE, HILDA ..... Allentown
KLINE, MARY ..... Allentown
KLINGLER, CAROLYN ..... Shoemakersville
KNECHT, MABEL ..... Allentown
KNECHT, RUTH ..... Allentown
KNEDLER, PAUL ..... East Texas
KNERR, EUGENE ..... Allentown
KOEHLER, LYMAN ..... Quakertown
KOHLER, EDWIN ..... Allentown
KOONS, ELIZABETH ..... Allentown
KOSTENBADER, DOROTHEA ..... Catasauqua
KRAMER, EILEEN ..... Coplay
KRAMER, ELMER ..... Perkasie
KRAMER, GRACE ..... Coplay
KRATZ, SARAH ..... Allentown
KUHNS, LUTHER ..... Allentown
KUNTZ, EDITH ..... Allentown
LANDIS, S. B. ..... Hellertown
LAUBACH, B. W. ..... Allentown
LAUCHNOR, PERSIE ..... Slatedale
LEASER, STELLA ..... Allentown
LEH, MRS. L. L. ..... Bethlehem
LEISENRING, LOUISE ..... Allentown
LENHART, FLORA ..... Allentown
LIEBENSBERGER, GRACE ..... Allentown
LONG, OREL ..... Allentown
LOUGHRAN, KATHRYN ..... Allentown
LUCAS, C. A. ..... Rittersville
MACCELLAN, ROBERT ..... Allentown
MCNAMARA, J. J. ..... Bethlehem
MADTES, EDNA ..... Allentown
MARBERGER, EFFIE ..... Allentown
MABCKS, MARJORIE ..... Emaus
MAURY, EMMA ..... Allentown
MAURY, PAUL ..... Allentown
MEYER, BLANCHE ..... Zionsville
MILLER, PEARL ..... Allentown
MILLER, RAYMOND ..... Allentown
MOSSER, WM. ..... Allentown
MOYER, ELIZABETH ..... Quakertown

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|---|---|
| MOYER, ESTHER | Macungie |
| MOYER, MAMIE | Allentown |
| MOYER, FLOYD | Lehighton |
| MUELLER, MARGARET | Easton |
| MULL, LAURA | Allentown |
| MURTAGH, HUGH | Philadelphia |
| MUSSELMAN, W. E. | Allentown |
| NEVERLA, MINERVA | Northampton |
| NEWHARD, STELLA | Allentown |
| NONNEMAKER, EMMA | Allentown |
| OBERLY, R. S. | Butler |
| PAUL, HUGO | Philadelphia |
| PHIFER, EVELYN | Coplay |
| PROTZELLER, DORA | Allentown |
| PRUTZMAN, STUART | Allentown |
| RADCLIFFE, MARIE | Buckingham |
| RAUB, MARY | Allentown |
| RAUSCH, KATHRYN | Allentown |
| RAUSCH, MARY | Allentown |
| REX, HARRIET | Allentown |
| REX, LEDA | Slatington |
| RICHARDS, ADELAIDE | Allentown |
| RICHARDS, SOPHIA | Allentown |
| RILEY, MATTHEW | Allentown |
| RITTER, FLORENCE | Allentown |
| RITTER, MINA | Allentown |
| ROARTY, MARGARET | Allentown |
| ROBERTS, GLADYS | Frackville |
| ROEDER, MARY | Allentown |
| RONGE, PAUL | Allentown |
| ROTH, LILLIAN | Allentown |
| ROTH, MARY | Allentown |
| RUHE, MAE | Allentown |
| RUTH, ESTHER | Allentown |
| RUTH, FLORENCE | Allentown |
| RUTH, HELEN | Allentown |
| SAXE, VICTOR | Effort |
| SCHANTZ, HATTIE | Allentown |
| SCHANTZ, LINN | Macungie |
| SCHEIRER, IRENE | Allentown |
| SCHOENLY, HELEN | Allentown |
| SCHROPE, GUY | Allentown |
| SECHRIST, HELEN | Allentown |

| | |
|---|---|
| Seip, Wm. | Quakertown |
| Shaw, Lillian | Quakertown |
| Shelly, Paul | Allentown |
| Simon, Jeanne | Reading |
| Sleath, Robert | Northampton |
| Smith, R. F. | Allentown |
| Snyder, Carrie | Allentown |
| Snyder, Laura | Auburn |
| Sowers, Harry | Andover, N. J. |
| Spencer, Raymond | Emaus |
| Stauffer, Robert G. | Quakertown |
| Stauffer, Russel | Hokendauqua |
| Steckel, Alfred | Mohnton |
| Steffy, E. W. | Allentown |
| Steinmetz, Jennie | Allentown |
| Steltz, Anna | Allentown |
| Stever, Esther | Quakertown |
| Strunk, LeRoy | Allentown |
| Stuber, Dora | Allentown |
| Trumbower, Eva | Allentown |
| Tyson, Hobart | Quakertown |
| Unangst, Ethel | Allentown |
| Weida, Emma | Pleasant Valley |
| Weierback, Lily | Allentown |
| Weiller, Harry | Emaus |
| Werner, Katherine | Weatherly |
| Wetherhold, Angelina | Allentown |
| Wimmer, H. C. | Saucona |
| Wintsch, Ida A. | Cuba, N. Y. |
| Wirebach, Urbanas | Easton |
| Wise, Irvine | Allentown |
| Zweier, Eva | Quakertown |

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## THE ALLENTOWN PREPARATORY SCHOOL AND MUHLENBERG ACADEMY

LOCATION: The school is the official preparatory school of Muhlenberg College although it is completely

separated from the college department. It is situated to the West of Muhlenberg College in a beautiful country district just on the outside of Allentown where the boy can enjoy the healthfulness of the country and yet not miss the advantages offered by the City. The school lies between 25th and 26th Sts. Our health record is excellent. Sickness in the school is almost unknown. The location is ideal.

BUILDING: The building is a large three story building with a nicely laid out and well lighted basement. The building is practically new. It is modern and fireproof throughout and completely equipped to do good work. The only wooden floors throughout the building are in the class rooms. The class rooms and the boys' rooms are of the highest type with regard to light, ventilation and good living conditions. We have in the building our own gymnasium, laboratories, and dining room.

AIM: The aim of the school is to furnish the basis of a solid education together with Christian manliness, to prepare young men for college, to give those who do not wish to enter college a good general education and also to prepare young men for business. A large number of the graduates enter Muhlenberg College but, nevertheless, the school prepares for any college or University in the country and many colleges accept our certificate in lieu of entrance examinations. Some of the schools to which our graduates go are: Muhlenberg, Lehigh, Lafayette, State, University of Penna., etc.

COURSES: There are the following courses: Classical, Scientific, Latin Scientific, General and Business. The Classical, Scientific, and Latin Scientific are for boys who desire to enter College. The general course

is for boys who do not wish to enter College but only desire a general education. The business course is quite complete and comprises all the subjects that a boy will get at the business school and Spanish as a modern language. The business course is limited only to about ten boys and is really a high grade business course.

JUNIOR DEPARTMENT: In addition to the main department there is maintained a junior department for younger boys into which are received boys both as boarding students and day students as young as nine years old. In this department there are also only a limited number of boys and if the boys come to us early enough there will be a saving of time and the instruction is bound to be more thorough than in the public school because the classes are very small.

SUMMER SESSION: The school also regularly has a summer session which begins about two weeks after the regular session and continues for a period of seven weeks. The next summer session will begin on June 28th, 1920. The summer session is not only for boys of our own school but for other boys as well. It enables boys to make up their conditions, to catch up with their classes, and in some cases to save time.

ATHLETICS: There are all branches of athletics, such as football, cross country, basketball, track, baseball and tennis. All the sports are, however, under faculty coaching and management. There is also excellent swimming, skating and coasting.

CAPACITY AND ACCESSIBILITY: The school can accomodate about eighty-five boarding students and about seventy-five day students and has been filled up entirely for the 1919-1920 school year. The school is easily accessible from all surrounding towns

and also the large cities as New York, Brooklyn, Philadelphia, etc.

ROOMS: The boys' rooms are furnished and the only things necessary for a boy to bring are sheets, pillow cases and towels.

INSTRUCTION: The instruction in most cases is in charge of teachers who are college graduates and men of experience. The aim of the school is to maintain small classes on the basis of sixteen to a section whereever possible so as to make the instruction very thorough. It is our object to reach every boy, every day in every subject. Every effort is made to avoid congested conditions.

CHARGES: The charges have been $400.00 for a boarding student and $100.00 for a day student and will quite likely remain so unless the advance of other things causes these prices to be raised. The school year is divided in three equal parts or terms and likewise the charges are divided in three equal parts and are due sometime throughout the term. There are three fees, namely, athletic, laboratory and contingent. The books can be procured at the school and amount to about ten dollars per year. The charges for the summer session are twenty-five dollars for a day student and seventy dollars for a boarding student.

The school is open throughout the year and visitors are always welcome at any time. We also issue our own and separate catalogue and the same will be cheerfully supplied upon request.

The following is a list of faculty and students.

IRVIN M. SHALTER, A.M., Muhlenberg College, Headmaster
*Mathematics and Spanish*

| | |
|---|---|
| KECK, ROBERT | Allentown, Pa. |
| KING, PAUL | Allentown, Pa. |
| KRESS, SAMUEL | Allentown, Pa. |
| LETFORD, RICHARD | Palmyra, N. J. |
| LICHTENWALNER, LAWRENCE | Allentown, Pa. |
| MCCREERY, JOSEPH | Bayonne, N. J. |
| MEYER, HAMPTON | New York, N. Y. |
| MORRIS, JOHN | North Wales, Pa. |
| NEXEN, HOBSON | Jersey City, N. J. |
| OTT, JOHN | Philadelphia, Pa. |
| PRETZ, CHRISTIAN | Allentown, Pa. |
| SPEIGELTHAL, EDWARD | New York, N. Y. |
| STRAUSS, LEWIS | Allentown, Pa. |
| WENDT, CHAS. | New York, N. Y. |
| ZAHN, HARRY | Philadelphia, Pa. |
| MOGUEL, FERNANDO | Merida, Mexico |

## BUSINESS DEPARTMENT

| | |
|---|---|
| BAILEY, J. LESTER | Meriden, Conn. |
| CALVO, IGNACIO | Havana, Cuba |
| CHIDSEY, GEORGE | Easton, Pa. |
| CHIDSEY, WILLIAM | Easton, Pa. |
| KAISER, PAUL | Philadelphia, Pa. |
| MACIEL, EDGARD D. | Rio Janeiro, Brazil. |
| MAX, LOUIS | Allentown, Pa. |
| RIKER, CHAS. | Easton, Pa. |
| SEMERANE, W. E. | Merida, Mexico |
| SOLARZANO, HUMBERTO | Philadelphia, Pa. |

## JUNIOR DEPARTMENT

| | |
|---|---|
| CURTISS, WILLIAM | Allentown, Pa. |
| GUTHRIDGE, LEROY | York, Pa. |
| HARNED, ROBERT | Allentown, Pa. |
| LITZENBERGER, PARKER | Philadelphia, Pa. |
| LORENTZ, GORDON | Philadelphia, Pa. |
| RUPP, LAWRENCE | Allentown, Pa. |
| SCHLESINGER, WILLARD | New York, N. Y. |
| WENDT, PAUL | New York, N. Y. |
| WHITCOMB, FREDERICK | Brooklyn, N. Y. |
| WHITCOMB, SALMON | Philadelphia, Pa. |
| WALKER, CHAS. | Allentown, Pa. |

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KINDER, NORMAN ..... Phillipsburg, Pa.
KRAUSE, STANLEY ..... Reading, Pa.

## JUNIORS

BALASKA, ANDREW ..... Monessen, Pa.
BERNARD, FRANK ..... North Adams Mass.
BRONSTEIN, PAUL ..... Allentown, Pa.
BUEHLER, HERBERT ..... Brooklyn, N. Y.
CHAGIN, FRED. ..... Merida, Mexico
CROUTHAMEL, LLOYD ..... Allentown, Pa.
DAUEFER, GEORGE ..... Allentown, Pa.
DIEFENDERFER, CHAS. ..... Fullerton, Pa.
ESTRADA, EDWARD ..... Brooklyn, N Y.
FOLK, RALPH ..... Mertztown, Pa.
HAWK, WALTER ..... Allentown, Pa.
HOUSE, ROLAND ..... Easton, Pa.
KALLENBACH, ERNST ..... Philadelphia, Pa.
KOCH, ALFRED ..... Allentown, Pa.
KOSTENBADER, CARL ..... Catasauqua, Pa.
KRAMLICH, RICHARD ..... Allentown, Pa.
KRAUSS, BERT ..... Allentown, Pa.
KREIDER, EUGENE ..... Philadelphia, Pa.
KRIVONOS, JULIUS ..... Allentown, Pa.
KROMELBEIN, LEON ..... Noxen, Pa.
KUSS, CHAS. ..... Allentown, Pa.
LONG, H. W. ..... Fullerton, Pa.
LUCKENBACH, BERT ..... Northampton, Pa.
NEXON, ELBERT ..... Jersey City, N. J.
OTT, NORMAN ..... Allentown, Pa.
RAHN, EMMANUEL ..... Allentown, Pa.
REICHARD, HOWARD ..... Allentown, Pa.
RESSSLER, JOHN ..... Fullerton, Pa.
SANTOS, FRANCISCO ..... Sao Paulo, Brazil.
SCHATZ, RALPH ..... Allentown, Pa.
SHAFFER, SIDNEY ..... Allentown, Pa.
SHULER, RALPH ..... Norristown, Pa.
SLOTTER, CLARENCE ..... Northampton, Pa.
SMODIS, STEPHEN ..... Bethlehem, Pa.
SONNTAG, HAROLD ..... Allentown, Pa.
THAMERUS, WILLIAM ..... Walnutport, Pa.
WALTERS, PAUL ..... Fullerton, Pa.
WHEELER, ROBERT ..... Allentown, Pa.
YOUNGKEN, HAROLD ..... Allentown, Pa.

DUTT, ROBERT ..... Allentown, Pa.
FERTICH, CHESTER ..... Sunbury, Pa.

## SOPHOMORES

BARNES, DOUGLAS ..... Allentown, Pa.
CASSONE, JAMES ..... Allentown, Pa.
CHRIST, ELMO ..... Allentown, Pa.
CLARK, JOHN ..... Phillipsburg, Pa.
DITTERLINE, HERMAN ..... Lehighton, Pa.
HEILMAN, JOHN ..... Allentown, Pa.
KOCH, PAUL ..... Northampton, Pa.
KNAUSS, BENJAMIN ..... Allentown, Pa.
KOONS, HAROLD ..... Allentown, Pa.
MACK, HENRY ..... Allentown, Pa.
MCKORMICK, JOHN ..... Allentown, Pa.
MERTZ, CHAS. ..... Easton, Pa.
NAGLE, THOMAS ..... Allentown, Pa.
PRETZ, WILLIAM ..... Allentown, Pa.
REYES, JOSE ..... Chinandega, Nicaragua, C. A.
ROEPE, GEORGE ..... Brooklyn, N. Y.
SEVART, GEORGE ..... Allentown, Pa.
SHANKWEILER, WILSON ..... Stettlersville, Pa.
SCHUGRUE, JOSEPH ..... Easton, Pa.
STEIGERWALT, HOWARD ..... Summit Hill, Pa.
STIPE, EDWIN ..... Easton, Pa.
TORGERSEN, WALTER ..... Brooklyn, N. Y.
VOGEL, NEWMAN ..... Allentown, Pa.
ZAUN, ALFRED ..... Brooklyn, N. Y.

## FRESHMEN

AUCH, WILLIAM ..... Bethlehem, Pa.
BARNES, HAROLD ..... Allentown, Pa.
BENHOFF, EARL ..... New York, N. Y.
DIAGO, JESUS ..... Havana, Cuba.
EBERT, JOHN ..... Allentown, Pa.
GOLDTHORPE, EARL ..... Patterson, N. J.
GRESH, WILLIAM ..... Washington, D. C.
GODDESS, JAMES ..... Allentown, Pa.
HALLEY, FRANK ..... Washington, D. C.
HARNED, WILLIAM ..... Allentown, Pa.
HART, COGAR ..... Philadelphia, Pa.
HEPLER, ELMER ..... Pitman, Pa.

CHAS. A. SMITH, A.M., Muhlenberg College, Librarian
*Latin and Greek*

PAUL J. GEBERT, A.B., Muhlenberg College
*History, Basketball and Track*

FREDERICK ABBUHL, A.M., Syracuse University
*English*

RALPH J. COCKS, A.B., Dartmouth
*Modern Languages*

EDWIN S. FABER, B.S., Massachusetts Agricultural College
*Science, Football and Baseball*

EDNA S. HAHN, M.E., Keystone State Normal School
*Business*

EDWIN G. ARNER, A.B., Muhlenberg College
*Mathematics and Modern Language*

LIONELL FARNEY
*Instructor in French*

ARLAN KLINE
*Instructor in Spanish*

## STUDENTS

### POST GRADUATES

HILDEBRAND, PAUL D.....Brooklyn, N. Y.
MEYER, ADOLPH .....Allentown, Pa.

### SENIORS

ALLEN, THOMAS .....Easton, Pa.
BALDWIN, ANDREW .....Easton, Pa.
BASKIN, BENJAMIN.....Allentown, Pa.
BAUER, CHAS. .....Allentown, Pa.
BERGER, EARL .....Lehighton, Pa.
BERKER, FRANCIS .....Steelton, Pa.
BITTNER, ROBERT .....Allentown, Pa.
BOLINSKY, JOSEPH .....Mahony Plane, Pa.

| | |
|---|---|
| Bortz, Wilson | Allentown, Pa. |
| Brownmiller, Lorrin | Shoemakersville |
| Bukeley, James | Meriden, Conn. |
| Dewey, Joseph | Meriden, Conn. |
| Edelman, James | Easton, Pa. |
| Eilenberger, Lytle | Gouldsboro, Pa. |
| Fallon, Bernard | Hartford, Conn. |
| Fasce, Joseph | Pittsfiield, Mass. |
| Fasig, Paul | Reading, Pa. |
| Flexer, Carl | Allentown, Pa. |
| Flower, Russell | Gouldsboro, Pa. |
| Hower, Stirling | Easton, Pa. |
| Hunsicker, Chas. | Norristown, Pa. |
| Karol, Abraham | Allentown, Pa. |
| Kline, Bernard | Brooklyn, N. Y. |
| Kline, Willard | Allentown, Pa. |
| Kroninger, Luther | Allentown, Pa. |
| Kroninger, Paul | Allentown, Pa. |
| Matson, Edward | Scranton, Pa. |
| McDermott, Bernard | Allentown, Pa. |
| Miller, Elmer | Camden, N. J. |
| Nickolas, George | Allentown, Pa. |
| O'Connor, Paul | Phillipsburg, N. J. |
| O'Rourke, Francis | Philadelphia, Pa. |
| Osterstodk, John | Easton, Pa. |
| Prendergast, Leo | Easton, Pa. |
| Raub, John | Easton, Pa. |
| Richards, Robert | Easton, Pa. |
| Roepe, Carl | Brooklyn, N. Y. |
| Roepe, Edward | Brooklyn, N. Y. |
| Romig, Arlan | East Texas, Pa. |
| Schadt, Lee | Allentown, Pa. |
| Schnurman, Penrose | Allentown, Pa. |
| Shook, Foster | Easton, Pa. |
| Smith, Ralph | Phillipsburg, Pa. |
| Sclt, *Harold* | Allentown, Pa. |
| Stauffer, Robert | Emaus, Pa. |
| Stowell, Eugene | Rochester, N. Y. |
| Ueberoth, Richard | Easton, Pa. |
| Waller, John | Allentown, Pa. |
| Walp, Chas. | Allentown, Pa. |
| Weger, Frank | Philadelphia, Pa. |
| Wenner, Warren | Allentown, Pa. |

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